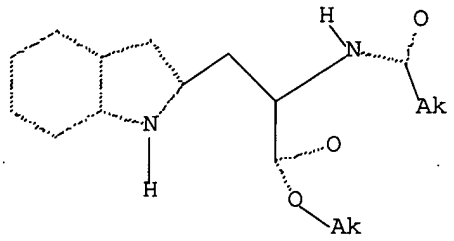
FILE 'HOME' ENTERED AT 14:36:00 ON 15 JAN 2003

=> fil reg
=>
Uploading 09810152 tryptophan deriv.str

=>
Uploading tryptophan deriv.str

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



G1 H

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 14:39:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 808 TO ITERATE

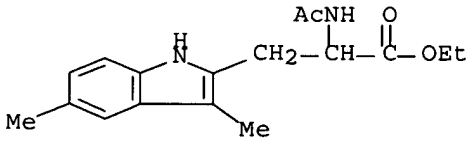
100.0% PROCESSED 808 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 14455 TO 17865
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> d

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 57291-63-1 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-3,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H22 N2 O3
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

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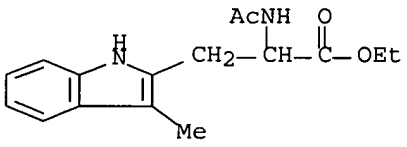
FULL SEARCH INITIATED 14:39:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 16505 TO ITERATE

100.0% PROCESSED 16505 ITERATIONS 10 ANSWERS
SEARCH TIME: 00.00.03

L3 10 SEA SSS FUL L1

=> d tot

L3 ANSWER 1 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 101586-80-5 REGISTRY
CN Indole-2-alanine, N-acetyl-3-methyl-, ethyl ester (6CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H20 N2 O3
SR CAOLD
LC STN Files: BEILSTEIN*, CAOLD
(*File contains numerically searchable property data)

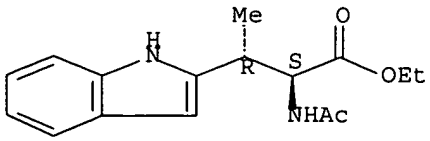


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 96286-24-7 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-.beta.-methyl-, ethyl ester, (R*,S*)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C16 H20 N2 O3
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
(*File contains numerically searchable property data)

Relative stereochemistry.

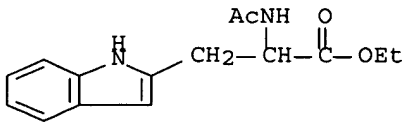


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L3 ANSWER 3 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 96286-14-5 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H18 N2 O3
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX, TOXCENTER

(*File contains numerically searchable property data)

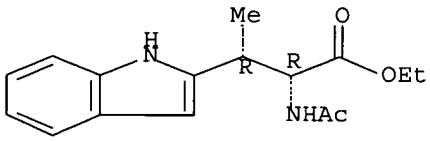


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L3 ANSWER 4 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 96286-13-4 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-.beta.-methyl-, ethyl ester, (R*,R*)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C16 H20 N2 O3
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
(*File contains numerically searchable property data)

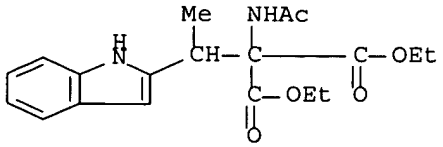
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L3 ANSWER 5 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 96286-11-2 REGISTRY
CN Propanedioic acid, (acetylamino)[1-(1H-indol-2-yl)ethyl]-, diethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H24 N2 O5
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
(*File contains numerically searchable property data)

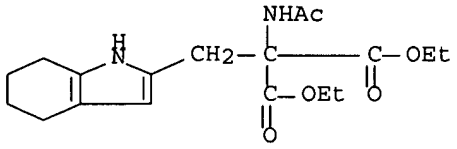


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L3 ANSWER 6 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 78942-38-8 REGISTRY

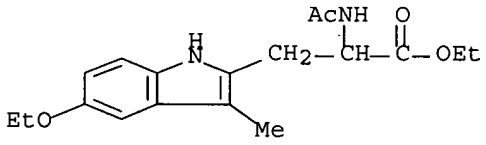
CN Propanedioic acid, (acetylamino)[(4,5,6,7-tetrahydro-1H-indol-2-yl)methyl]-, diethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H26 N2 O5
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

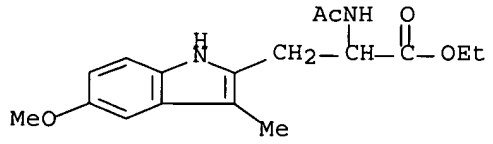
L3 ANSWER 7 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 57291-65-3 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-5-ethoxy-3-methyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H24 N2 O4
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

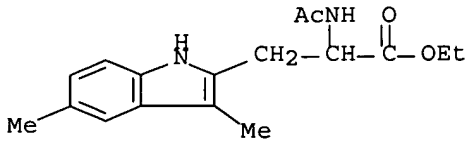
L3 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 57291-64-2 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-5-methoxy-3-methyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H22 N2 O4
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

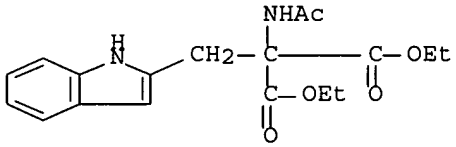
L3 ANSWER 9 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 57291-63-1 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-3,5-dimethyl-, ethyl
    ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H22 N2 O3
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L3 ANSWER 10 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 13373-31-4 REGISTRY
CN Propanedioic acid, (acetylamino)(1H-indol-2-ylmethyl)-, diethyl ester
    (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Malonic acid, acetamido(indol-2-ylmethyl)-, diethyl ester (8CI)
FS 3D CONCORD
MF C18 H22 N2 O5
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
        (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

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E1 THROUGH E5 ASSIGNED

=> fil hcapl uspatf
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	169.83	170.04

FILE 'HCAPLUS' ENTERED AT 14:40:52 ON 15 JAN 2003
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FILE 'USPATFULL' ENTERED AT 14:40:52 ON 15 JAN 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s e1-5
L4 2 (101586-80-5/BI OR 96286-11-2/BI OR 96286-13-4/BI OR 96286-14-5/
    BI OR 96286-24-7/BI)

=> d

L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2003 ACS
AN 1992:651192 HCAPLUS
DN 117:251192
TI Synthesis of 2-alkylindoles
AU Mohan, B.; Vedachalam, M.; Srinivasan, P. C.
CS Dep. Org. Chem., Univ. Madras, Madras, 600 025, India
SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1992), 31B(10), 685-7
CODEN: IJSBDB; ISSN: 0376-4699
DT Journal
LA English

=> d 2

L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2003 ACS
AN 1985:184986 HCAPLUS
DN 102:184986
TI Synthesis of 3-amino-5H-pyrido[4,3-b]indoles, carcinogenic .gamma.-carbolines
AU Akimoto, Hiroshi; Kawai, Akiyoshi; Nomura, Hiroaki
CS Cent. Res. Div., Takeda Chem. Ind., Ltd., Osaka, 532, Japan
SO Bulletin of the Chemical Society of Japan (1985), 58(1), 123-30
CODEN: BCSJA8; ISSN: 0009-2673
DT Journal
LA English
OS CASREACT 102:184986

=> d ibib abs kwic hitstr 1-2

L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1992:651192 HCAPLUS
DOCUMENT NUMBER: 117:251192
TITLE: Synthesis of 2-alkylindoles
AUTHOR(S): Mohan, B.; Vedachalam, M.; Srinivasan, P. C.
CORPORATE SOURCE: Dep. Org. Chem., Univ. Madras, Madras, 600 025, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1992), 31B(10), 685-7
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
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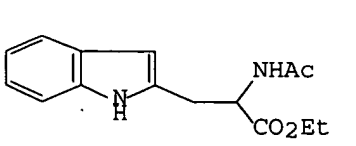

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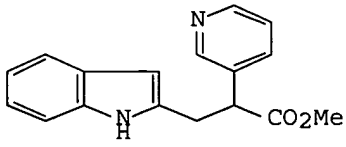

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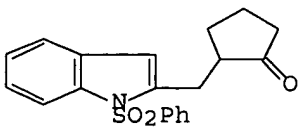
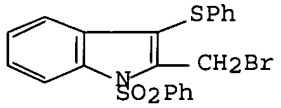


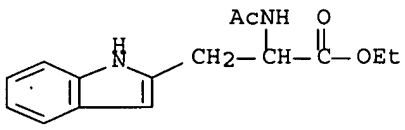
III



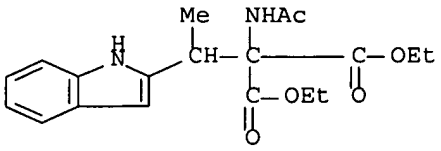
IV

AB Synthesis of some useful 2-alkylindoles, e.g., I-III, bearing functional groups in the side chain, starting from indole deriv. IV is reported. For example, I was prepd. by the reaction of IV with AcNHCH(CO2Et)2 in presence of NaH, followed by decarbethoxylation and reductive removal of SPh and SO2Ph groups with Ni in refluxing EtOH.
IT 85678-44-0P 94258-74-9P **96286-14-5P** 137064-28-9P

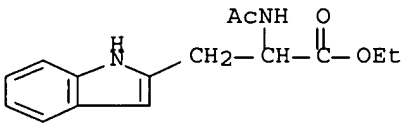
144661-12-1P 144661-16-5P 144661-18-7P 144661-20-1P 144661-21-2P
144661-22-3P 144661-23-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
IT **96286-14-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 96286-14-5 HCAPLUS
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-, ethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1985:184986 HCAPLUS
DOCUMENT NUMBER: 102:184986
TITLE: Synthesis of 3-amino-5H-pyrido[4,3-b]indoles, carcinogenic .gamma.-carbolines
AUTHOR(S): Akimoto, Hiroshi; Kawai, Akiyoshi; Nomura, Hiroaki
CORPORATE SOURCE: Cent. Res. Div., Takeda Chem. Ind., Ltd., Osaka, 532, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1985), 58(1), 123-30
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 102:184986
AB The carcinogenic .gamma.-carbolines 3-amino-1,4-dimethyl-5H-pyrido[4,3-b]indole (I) and 3-amino-1-methyl-5H-pyrido[4,3-b]indole (II) were synthesized with the key step being the acid-catalyzed cyclization. of 2-acetamido-3-(2-indolyl)alkanoic acids to 1,2-dihydro-.gamma.-carbolines. This was followed by dehydrogenation to the .gamma.-carbolinecarboxylates and conversion of the ester group to the carboxyl and finally to the amino group by Curtius rearrangement. Alternative methods involved the thermolysis of 4-(1-benzotriazolyl)-3,6-dimethyl-2-pyridinamine to synthesize I and the condensation of 3-acetylindole-2-acetonitrile with NH3 to synthesize II. The structures of .gamma.-carbolines I and II were unambiguously established by comparing samples of each synthesized by the two different routes. A selective and one-step synthesis of Et 2-acetamido-3-(2-indolyl)alkanoates was newly exploited starting from di-Et acetamidomalonate and quaternary ammonium salts of 2-[1-(dimethylamino)alkyl]indoles.
IT **96286-11-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and hydrolysis-decarboxylation of)
IT **96286-14-5P** 96286-18-9P 96286-19-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and sapon. of)
IT 62450-06-0P 62450-07-1P 68808-54-8P 72254-58-1P 96286-07-6P
96286-13-4P 96286-15-6P 96286-21-4P **96286-24-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
IT **96286-11-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and hydrolysis-decarboxylation of)
RN 96286-11-2 HCAPLUS
CN Propanedioic acid, (acetylamino)[1-(1H-indol-2-yl)ethyl]-, diethyl ester (9CI) (CA INDEX NAME)

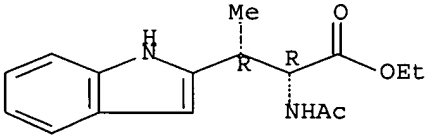


IT **96286-14-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and sapon. of)
RN 96286-14-5 HCAPLUS
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-, ethyl ester (9CI) (CA INDEX NAME)



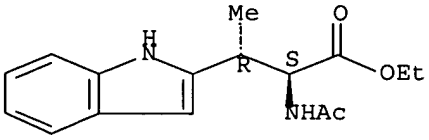
IT **96286-13-4P 96286-24-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 96286-13-4 HCAPLUS
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-.beta.-methyl-, ethyl ester, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 96286-24-7 HCAPLUS
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-.beta.-methyl-, ethyl ester, (R*,S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.48	187.52

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.30	-1.30

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FILE 'STNGUIDE' ENTERED AT 14:42:05 ON 15 JAN 2003
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jan 10, 2003 (20030110/UP).

=> fil marpat
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.30     187.82

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                    0.00      -1.30

FILE 'MARPAT' ENTERED AT 14:45:01 ON 15 JAN 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE CONTENT: 1988-PRESENT (VOL 104 ISS 15-VOL 138 ISS 2)(20030110/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US    6495149 17 DEC 2002
DE   20211496 19 NOV 2002
EP    1264847 11 DEC 2002
JP 2002363748 18 DEC 2002
WO 2002099435 12 DEC 2002

Structure search limits have been raised.  See HELP SLIMIT for the new,
higher limits.

=> s l1
SAMPLE SEARCH INITIATED 14:45:17 FILE 'MARPAT'
SAMPLE SCREEN SEARCH COMPLETED -    875 TO ITERATE

 99.8% PROCESSED     873 ITERATIONS                          1 ANSWERS

100.0% PROCESSED     875 ITERATIONS                          1 ANSWERS
SEARCH TIME: 00.00.30

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        15809 TO    19191
PROJECTED ANSWERS:               1 TO       80

L5            1 SEA SSS SAM L1

=> d

L5   ANSWER 1 OF 1  MARPAT  COPYRIGHT 2003 ACS
AN   115:207874  MARPAT
TI   Preparation of 4-[(oxoazacycloalkyl)aminocarbonyl]-3-mercaptoalkanoates as
     collagenase inhibitors
IN   Markwell, Roger Edward; Hughes, Ian
PA   Beecham Group PLC, UK
SO   Eur. Pat. Appl., 14 pp.
     CODEN: EPXXDW
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   EP 438223          A1   19910724       EP 1991-300123   19910108
        R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
     CA 2034016         AA   19910716       CA 1991-2034016  19910111
     ZA 9100228         A    19911030       ZA 1991-228      19910111
     US 5190937         A    19930302       US 1991-640069   19910111
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     AU 9169317         A1   19910718       AU 1991-69317    19910114
     AU 628707          B2   19920917
     JP 04210966        A2   19920803       JP 1991-16018    19910114
PRAI GB 1990-846       19900115


=> s l1 full
FULL SEARCH INITIATED 14:47:51 FILE 'MARPAT'
FULL SCREEN SEARCH COMPLETED -  18695 TO ITERATE

 20.1% PROCESSED    3750 ITERATIONS                          20 ANSWERS

 52.0% PROCESSED    9729 ITERATIONS  (     2 INCOMPLETE)     60 ANSWERS

 67.2% PROCESSED   12558 ITERATIONS  (    10 INCOMPLETE)     83 ANSWERS

 81.0% PROCESSED   15139 ITERATIONS  (    24 INCOMPLETE)    113 ANSWERS

 90.8% PROCESSED   16970 ITERATIONS  (    33 INCOMPLETE)    139 ANSWERS

 96.8% PROCESSED   18096 ITERATIONS  (    45 INCOMPLETE)    158 ANSWERS

 97.8% PROCESSED   18282 ITERATIONS  (    47 INCOMPLETE)    161 ANSWERS

 98.9% PROCESSED   18481 ITERATIONS  (    49 INCOMPLETE)    165 ANSWERS

 99.4% PROCESSED   18582 ITERATIONS  (    50 INCOMPLETE)    166 ANSWERS

 99.9% PROCESSED   18674 ITERATIONS  (    52 INCOMPLETE)    169 ANSWERS

 99.9% PROCESSED   18680 ITERATIONS  (    52 INCOMPLETE)    169 ANSWERS

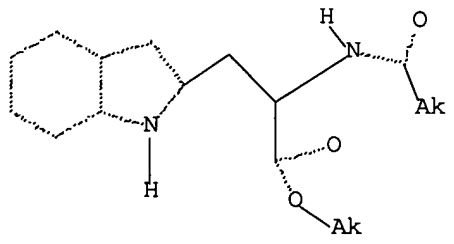
100.0% PROCESSED   18695 ITERATIONS  (    52 INCOMPLETE)    169 ANSWERS
SEARCH TIME: 00.05.52

L6          169 SEA SSS FUL L1

=>
Uploading tryp deriv subset.str

L7      STRUCTURE UPLOADED

=> d
L7 HAS NO ANSWERS
L7               STR
```




```
 G1 H


=> d ti pi 1-5
L5 HAS NO ANSWERS
'TI PI ' IS NOT A VALID STRUCTURE FORMAT KEYWORD
Structure Formats
SIA ----- Structure Image, Attributes, and map table if it contains
          data.  (Default)
SIM ----- Structure IMage.
SAT ----- Structure ATtributes and map table if it contains data.
SCT ----- Structure Connection Table and map table if it contains
          data.
SDA ----- All Structure DAta (image, attributes, connection table and
          map table if it contains data).
NOS ----- NO Structure data.
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```
ENTER STRUCTURE FORMAT (SIA), SCT, SDA, SIM, SAT, NOS:end

=> d ti pi 1-5 l3
L3 HAS NO ANSWERS
'TI PI ' IS NOT A VALID STRUCTURE FORMAT KEYWORD
Structure Formats
SIA ----- Structure Image, Attributes, and map table if it contains
          data.  (Default)
SIM ----- Structure IMage.
SAT ----- Structure ATtributes and map table if it contains data.
SCT ----- Structure Connection Table and map table if it contains
          data.
SDA ----- All Structure DAta (image, attributes, connection table and
          map table if it contains data).
NOS ----- NO Structure data.
ENTER STRUCTURE FORMAT (SIM), NOS:end

=> d ti pi 1-5 l2

L2   ANSWER 1 OF 169  MARPAT  COPYRIGHT 2003 ACS
TI   Carboxamide-substituted phenylurea derivatives for the treatment of type
     II diabetes
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   WO 2002096864      A1   20021205       WO 2002-EP5205   20020511
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     DE 10125567        A1   20021205       DE 2001-10125567 20010525

L2   ANSWER 2 OF 169  MARPAT  COPYRIGHT 2003 ACS
TI   Preparation of novel 4-anilinoquinoline-3-carboxamides as JAK3 kinase
     inhibitors
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   WO 2002092571      A1   20021121       WO 2002-SE875    20020506
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

L2   ANSWER 3 OF 169  MARPAT  COPYRIGHT 2003 ACS
TI   .kappa.-Opioid agonists as remedies for sepsis
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   WO 2002089845      A1   20021114       WO 2002-JP4469   20020508
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

L2   ANSWER 4 OF 169  MARPAT  COPYRIGHT 2003 ACS
TI   Preparation of arylalkanoic acids and hydroxamic acids as histone
     deacetylase inhibitors for treatment of cancer, hematological disorders,
     and genetic related metabolic disorders
```

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002143052	A1	20021003	US 2001-812945	20010327
	WO 2002076941	A2	20021003	WO 2002-US8836	20020325
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

L2 ANSWER 5 OF 169 MARPAT COPYRIGHT 2003 ACS
(ALL HITs ARE ITERATION INCOMPLETES)
TI Preparation of 3-halomethylbenzo[b]thiophene derivatives as intermediates for drugs via cyclization of (1-propyn-2-ylsulfinyl)benzene derivative and halogenation of 3-(hydroxymethyl)benzo[b]thiophene or 2-hydroxy-3-methylene-2-hydrobenzo[b]thiophene

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002066457	A1	20020829	WO 2002-JP1611	20020222
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

=> d ti pi l2 100-105

L2 ANSWER 100 OF 169 MARPAT COPYRIGHT 2003 ACS
TI Preparation of octacyclodepsipeptides having endo-parasiticidal and anthelmintic activity.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 626376	A1	19941130	EP 1994-107544	19940516
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, SE				
	DE 4317432	A1	19941201	DE 1993-4317432	19930526
	AU 9460641	A1	19941201	AU 1994-60641	19940421
	AU 679724	B2	19970710		
	US 6468966	B1	20021022	US 1994-246022	19940519
	CA 2124054	AA	19941127	CA 1994-2124054	19940520
	JP 06340694	A2	19941213	JP 1994-129923	19940520
	ZA 9403639	A	19950127	ZA 1994-3639	19940525
	US 5717063	A	19980210	US 1995-456148	19950531

L2 ANSWER 101 OF 169 MARPAT COPYRIGHT 2003 ACS
TI Preparation of novel amino acid derivative

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9408947	A1	19940428	WO 1993-JP1482	19931015
	W: CA, JP, US				
	RW: BE, CH, DE, FR, GB, IT, NL, SE				
	CA 2125679	AA	19940428	CA 1993-2125679	19931015
	EP 617009	A1	19940928	EP 1993-922636	19931015
	EP 617009	B1	19990908		
	R: BE, CH, DE, FR, GB, IT, LI, NL, SE				
	US 5798387	A	19980825	US 1996-753381	19961125
	US 6245810	B1	20010612	US 1998-106454	19980630

L2 ANSWER 102 OF 169 MARPAT COPYRIGHT 2003 ACS
TI Preparation of peptide analogs as inhibitors of neutral endopeptidase and angiotensin converting enzyme.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI WO 9403481 A1 19940217 WO 1993-US7137 19930803
W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
US 5298492 A 19940329 US 1992-925338 19920804
AU 9347919 A1 19940303 AU 1993-47919 19930803
EP 658169 A1 19950621 EP 1993-918488 19930803
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
JP 07509717 T2 19951026 JP 1993-505432 19930803

L2 ANSWER 103 OF 169 MARPAT COPYRIGHT 2003 ACS
TI Preparation of N-substituted cycloalkyl and polycycloalkyl .alpha.-substituted tryptophanylphenylalanine derivatives as drugs.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5278316	A	19940111	US 1990-629809	19901219
AU 9059628	A1	19910117	AU 1990-59628	19900628
AU 644088	B2	19931202		
ZA 9005057	A	19920226	ZA 1990-5057	19900628
EP 479910	A1	19920415	EP 1990-911185	19900628
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
JP 04506079	T2	19921022	JP 1990-510126	19900628
JP 2972331	B2	19991108		
CN 1049165	A	19910213	CN 1990-106804	19900629
NO 9105122	A	19920227	NO 1991-5122	19911227
US 5631281	A	19970520	US 1994-235814	19940428
US 5580896	A	19961203	US 1995-447142	19950522
US 5622983	A	19970422	US 1995-447141	19950522

L2 ANSWER 104 OF 169 MARPAT COPYRIGHT 2003 ACS
(ALL HITs ARE ITERATION INCOMPLETES)
TI Preparation of 3-(hetero)arylcarboxylic acid-derivative herbicides with increased species selectivity

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 4313412	A1	19941027	DE 1993-4313412	19930423
CA 2160912	AA	19941110	CA 1994-2160912	19940413
WO 9425442	A1	19941110	WO 1994-EP1141	19940413
W: AU, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, NO, NZ, PL, RU, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9465681	A1	19941121	AU 1994-65681	19940413
AU 678236	B2	19970522		
BR 9406478	A	19960102	BR 1994-6478	19940413
EP 695295	A1	19960207	EP 1994-913588	19940413
EP 695295	B1	20020306		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
CN 1121711	A	19960501	CN 1994-191867	19940413
CN 1066141	B	20010523		
HU 73558	A2	19960828	HU 1995-3040	19940413
HU 221475	B	20021028		
JP 08508723	T2	19960917	JP 1994-521408	19940413
RU 2140413	C1	19991027	RU 1995-120099	19940413
PL 179463	B1	20000929	PL 1994-311228	19940413
AT 214053	E	20020315	AT 1994-913588	19940413
ES 2173916	T3	20021101	ES 1994-913588	19940413
FI 9504994	A	19951019	FI 1995-4994	19951019
US 5703017	A	19971230	US 1995-537843	19951019
NO 9504211	A	19951220	NO 1995-4211	19951020

L2 ANSWER 105 OF 169 MARPAT COPYRIGHT 2003 ACS
(ALL HITs ARE ITERATION INCOMPLETES)
TI Preparation of benzo-fused lactams as growth hormone release promoters

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5283241	A	19940201	US 1992-936975	19920828
WO 9405634	A1	19940317	WO 1993-US7791	19930818
W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
EP 659179	A1	19950628	EP 1993-920190	19930818
EP 659179	B1	20011121		

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Welcome to STN International!  Enter x:x

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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


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 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2  Jan 25  BLAST(R) searching in REGISTRY available in STN on the Web
 NEWS  3  Jan 29  FSTA has been reloaded and moves to weekly updates
 NEWS  4  Feb 01  DKILIT now produced by FIZ Karlsruhe and has a new update
                  frequency
 NEWS  5  Feb 19  Access via Tymnet and SprintNet Eliminated Effective 3/31/02
 NEWS  6  Mar 08  Gene Names now available in BIOSIS
 NEWS  7  Mar 22  TOXLIT no longer available
 NEWS  8  Mar 22  TRCTHERMO no longer available
 NEWS  9  Mar 28  US Provisional Priorities searched with P in CA/CAplus
                  and USPATFULL
 NEWS 10  Mar 28  LIPINSKI/CALC added for property searching in REGISTRY
 NEWS 11  Apr 02  PAPERCHEM no longer available on STN.  Use PAPERCHEM2 instead.
 NEWS 12  Apr 08  "Ask CAS" for self-help around the clock
 NEWS 13  Apr 09  BEILSTEIN: Reload and Implementation of a New Subject Area
 NEWS 14  Apr 09  ZDB will be removed from STN
 NEWS 15  Apr 19  US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
 NEWS 16  Apr 22  Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
 NEWS 17  Apr 22  BIOSIS Gene Names now available in TOXCENTER
 NEWS 18  Apr 22  Federal Research in Progress (FEDRIP) now available

 NEWS EXPRESS  February 1 CURRENT WINDOWS VERSION IS V6.0d,
               CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
               AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 10:22:30 ON 01 MAY 2002

=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.63       0.63
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FILE 'REGISTRY' ENTERED AT 10:24:02 ON 01 MAY 2002
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STRUCTURE FILE UPDATES: 29 APR 2002 HIGHEST RN 409058-68-0
DICTIONARY FILE UPDATES: 29 APR 2002 HIGHEST RN 409058-68-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09810152 tryptophan deriv.str

L1 STRUCTURE UPLOADED

=> d
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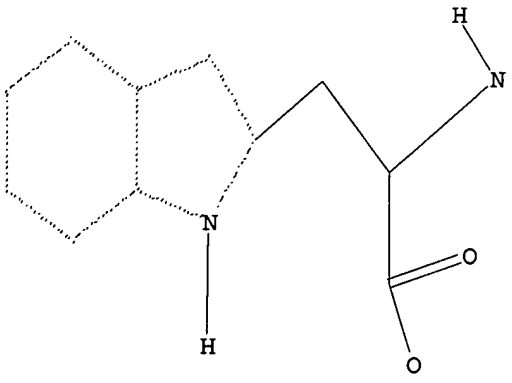
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 10:24:49 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2681 TO ITERATE

37.3% PROCESSED 1000 ITERATIONS 3 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 50516 TO 56724
PROJECTED ANSWERS: 3 TO 330

L2 3 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 10:24:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 54290 TO ITERATE

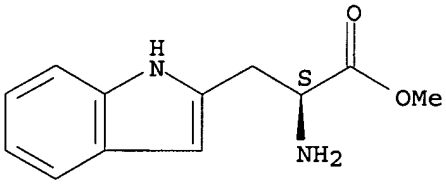
100.0% PROCESSED 54290 ITERATIONS 110 ANSWERS
SEARCH TIME: 00.00.02

L3 110 SEA SSS FUL L1

=> d scan

L3 110 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN 1H-Indole-2-propanoic acid, .alpha.-amino-, methyl ester, (.alpha.S)-
(9CI)
MF C12 H14 N2 O2

Absolute stereochemistry.

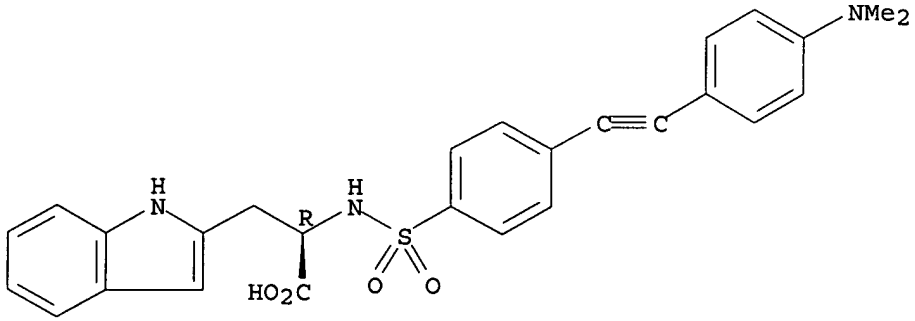


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L3 110 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN 1H-Indole-2-propanoic acid, .alpha.-[[[4-[[4-(dimethylamino)phenyl]ethynyl
]phenyl]sulfonyl]amino]-, (R)- (9CI)
MF C27 H25 N3 O4 S

Absolute stereochemistry.

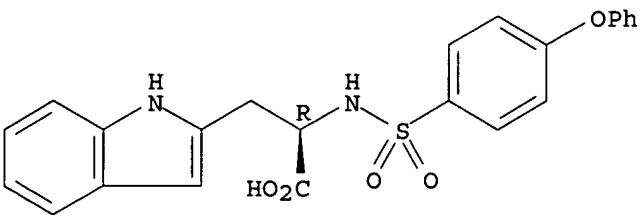


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 110 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN 1H-Indole-2-propanoic acid, .alpha.-[[(4-phenoxyphenyl)sulfonyl]amino]-,
(R)- (9CI)

MF C23 H20 N2 O5 S

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> fil stng

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	141.04	141.67

FILE 'STNGUIDE' ENTERED AT 10:25:48 ON 01 MAY 2002
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 26, 2002 (20020426/UP).

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.30	141.97

FILE 'REGISTRY' ENTERED AT 10:28:35 ON 01 MAY 2002
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TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

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conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09810152 tryptophan deriv.str

L4 STRUCTURE UPLOADED

```
=> d
L4 HAS NO ANSWERS
L4                STR
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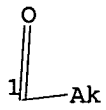

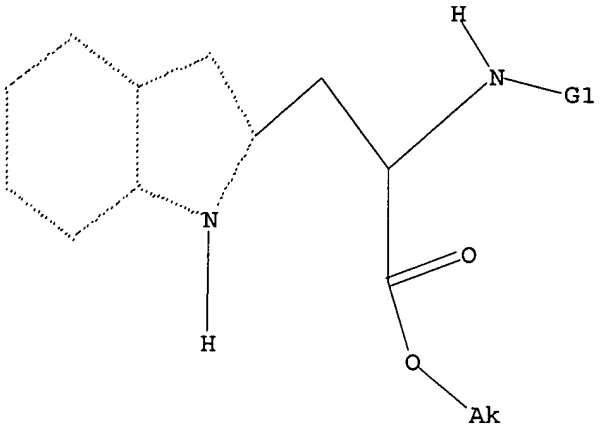


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G1 H,[@1]


Structure attributes must be viewed using STN Express query preparation.


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SAMPLE SEARCH INITIATED 10:30:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   2681 TO ITERATE

 37.3% PROCESSED    1000 ITERATIONS                                  0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         50516 TO    56724
PROJECTED ANSWERS:                0 TO        0

L5             0 SEA SSS SAM L4

=> s l4 full
FULL SEARCH INITIATED 10:30:10 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  54290 TO ITERATE

100.0% PROCESSED   54290 ITERATIONS                               16 ANSWERS
SEARCH TIME: 00.00.17

L6            16 SEA SSS FUL L4

=> d tot

L6   ANSWER 1 OF 16  REGISTRY  COPYRIGHT 2002 ACS
RN   385436-63-5  REGISTRY
CN   1H-Indole-2-propanoic acid, .alpha.-amino-, ethyl ester, (.alpha.R)- (9CI)
     (CA INDEX NAME)
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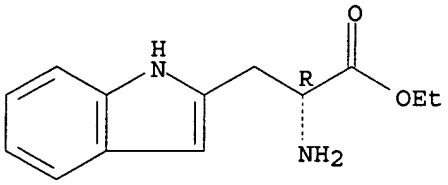
FS STEREOSEARCH
MF C13 H16 N2 O2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

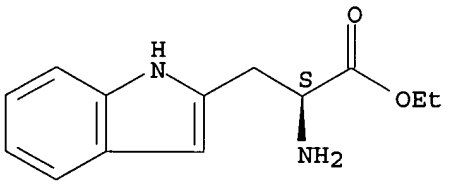


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 2 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 355839-89-3 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-amino-, ethyl ester, (.alpha.S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C13 H16 N2 O2
SR CA
LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

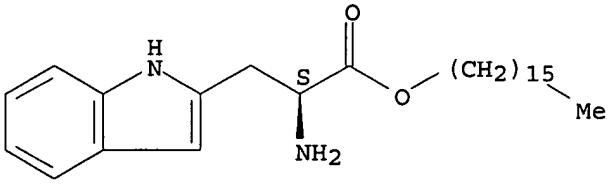


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 3 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 187546-18-5 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-amino-, hexadecyl ester, (S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H44 N2 O2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

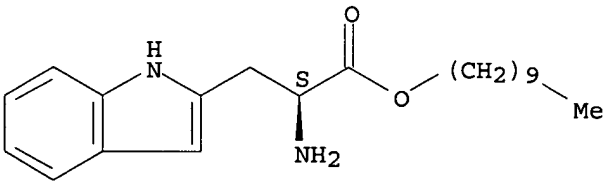


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 4 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 187546-16-3 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-amino-, decyl ester, (S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H32 N2 O2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

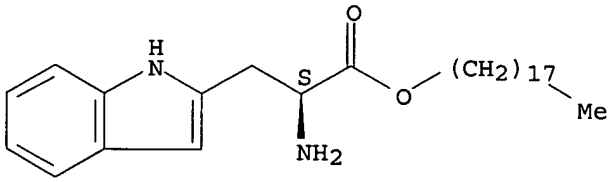


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 5 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 187546-15-2 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-amino-, octadecyl ester, (S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H48 N2 O2
SR CA
LC STN Files: CA, CAPLUS

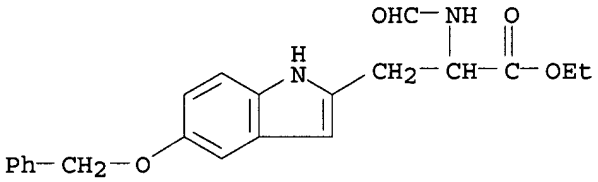
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

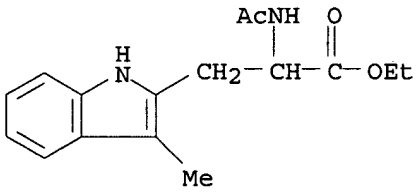
L6 ANSWER 6 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 102660-81-1 REGISTRY
CN Indole-2-alanine, 5-(benzyloxy)-N-formyl-, ethyl ester (6CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H22 N2 O4
SR CAOLD
LC STN Files: BEILSTEIN*, CAOLD
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 7 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 101586-80-5 REGISTRY
CN Indole-2-alanine, N-acetyl-3-methyl-, ethyl ester (6CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H20 N2 O3
SR CAOLD
LC STN Files: BEILSTEIN*, CAOLD
(*File contains numerically searchable property data)



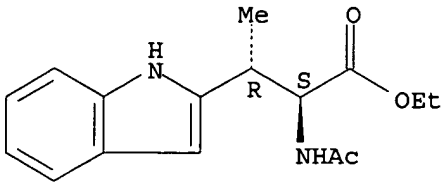
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 8 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 96286-24-7 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-.beta.-methyl-, ethyl ester, (R*,S*)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C16 H20 N2 O3
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER

(*File contains numerically searchable property data)

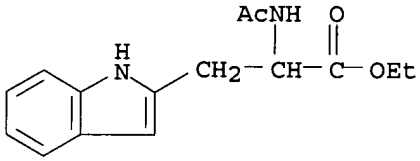
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 9 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 96286-14-5 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H18 N2 O3
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX, TOXCENTER
(*File contains numerically searchable property data)

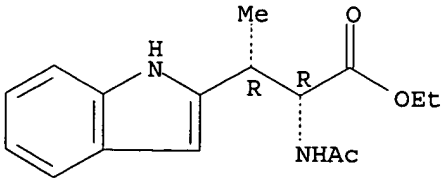


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 10 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 96286-13-4 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-.beta.-methyl-, ethyl ester, (R*,R*)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C16 H20 N2 O3
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
(*File contains numerically searchable property data)

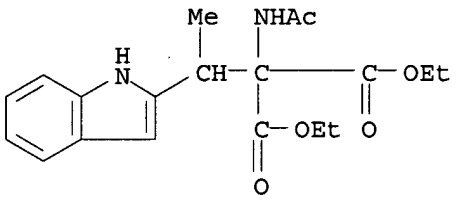
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

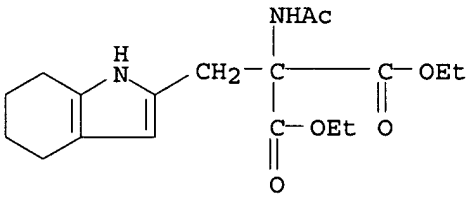
L6 ANSWER 11 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 96286-11-2 REGISTRY
CN Propanedioic acid, (acetylamino)[1-(1H-indol-2-yl)ethyl]-, diethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H24 N2 O5
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 12 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 78942-38-8 REGISTRY
CN Propanedioic acid, (acetylamino)[(4,5,6,7-tetrahydro-1H-indol-2-yl)methyl]-, diethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H26 N2 O5
LC STN Files: CA, CAPLUS

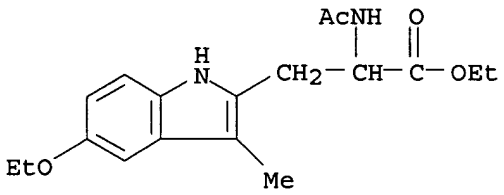


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 13 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 57291-65-3 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-5-ethoxy-3-methyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H24 N2 O4

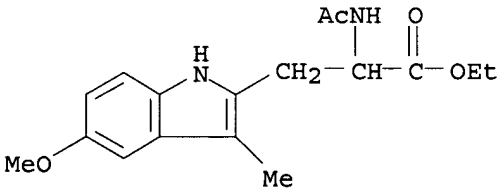
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 14 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 57291-64-2 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-5-methoxy-3-methyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H22 N2 O4
LC STN Files: CA, CAPLUS



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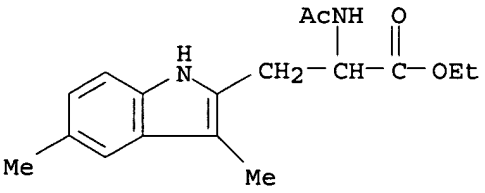
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

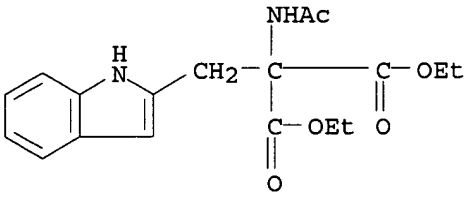
L6 ANSWER 15 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 57291-63-1 REGISTRY
CN 1H-Indole-2-propanoic acid, .alpha.-(acetylamino)-3,5-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H22 N2 O3
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L6 ANSWER 16 OF 16 REGISTRY COPYRIGHT 2002 ACS
RN 13373-31-4 REGISTRY
CN Propanedioic acid, (acetylamino)(1H-indol-2-ylmethyl)-, diethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Malonic acid, acetamido(indol-2-ylmethyl)-, diethyl ester (8CI)
FS 3D CONCORD
MF C18 H22 N2 O5
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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E1 THROUGH E5 ASSIGNED

=> fil medl capl uspatf wpid

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	168.24	310.21

FILE 'MEDLINE' ENTERED AT 10:32:45 ON 01 MAY 2002

FILE 'CAPLUS' ENTERED AT 10:32:45 ON 01 MAY 2002
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FILE 'USPATFULL' ENTERED AT 10:32:45 ON 01 MAY 2002
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'WPIDS' ENTERED AT 10:32:45 ON 01 MAY 2002
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=> s e1-5
L7 3 (187546-15-2/BI OR 187546-16-3/BI OR 187546-18-5/BI OR 355839-89-3/BI OR 385436-63-5/BI)

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PROCESSING COMPLETED FOR L7
L8 3 DUP REM L7 (0 DUPLICATES REMOVED)

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L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN 2002:10476 CAPLUS
DN 136:69825
TI Preparation of heterocycles containing a pyrido[1,2-a]pyrazinedione subunit for therapeutic use as phosphodiesterase V inhibitors
IN Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.
PA Lilly Icos LLC, USA
SO PCT Int. Appl., 86 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002000657	A2	20020103	WO 2001-US15550	20010515

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-214284P P 20000626
OS MARPAT 136:69825

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN 2001:412560 CAPLUS
DN 135:195756
TI Efficient Asymmetric Synthesis of Biologically Important Tryptophan Analogues via a Palladium-Mediated Heteroannulation Reaction
AU Ma, Chunrong; Liu, Xiaoxiang; Li, Xiaoyan; Flippen-Anderson, Judith; Yu, Shu; Cook, James M.
CS Department of Chemistry, University of Wisconsin-Milwaukee, Milwaukee, WI, 53201, USA
SO Journal of Organic Chemistry (2001), 66(13), 4525-4542
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 135:195756
RE.CNT 96 THERE ARE 96 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN 1997:204534 CAPLUS
DN 126:194385
TI Magnetic recording material containing tryptophane derivative lubricant
IN Nishida, Yasuhiro
PA Sony Corp, Japan
SO Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09007165	A2	19970110	JP 1995-148591	19950615

OS MARPAT 126:194385

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FULL ESTIMATED COST                                        16.31     326.52

FILE 'STNGUIDE' ENTERED AT 10:33:24 ON 01 MAY 2002
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 26, 2002 (20020426/UP).

=> d ibib abs hitstr tot
YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:y


L8   ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2002 ACS
ACCESSION NUMBER:         2002:10476  CAPLUS
DOCUMENT NUMBER:          136:69825
TITLE:                    Preparation of heterocycles containing a
                          pyrido[1,2-a]pyrazinedione subunit for therapeutic use
                          as phosphodiesterase V inhibitors
INVENTOR(S):              Orme, Mark W.; Sawyer, Jason Scott; Schultze, Lisa M.
PATENT ASSIGNEE(S):       Lilly Icos LLC, USA
SOURCE:                   PCT Int. Appl., 86 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
     WO 2002000657      A2   20020103       WO 2001-US15550  20010515
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             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
             RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
             UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:                  US 2000-214284P  P  20000626
OTHER SOURCE(S):          MARPAT 136:69825
GI
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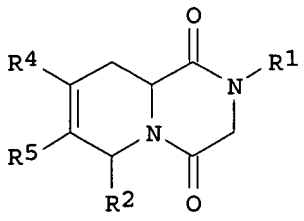

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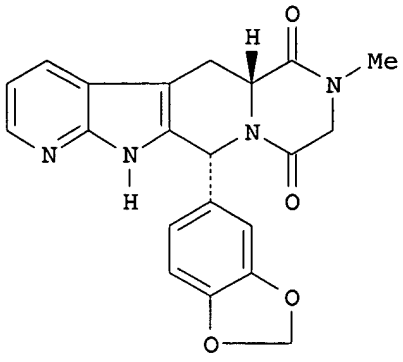


II

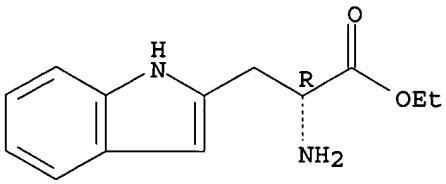
AB Heterocycles contg. a 9,9a-dihydro-2H-pyrido[1,2-a]pyrazine-1,4(3H,6H)-dione subunit, such as I [R1 = H, alkyl, alkenyl, alkynyl, haloalkyl, cycloalkyl, aryl, heteroarylalkyl; R2 = Ph, thienyl, furanyl, pyridinyl, etc.; R4R5 = fused heterocyclic or carbocyclic ring], were prepd. for pharmaceutical use as phosphodiesterase V inhibitors for treatment of conditions, such as erectile dysfunction and female arousal disorder. Thus, dione II was prepd. via cyclocondensation of (.+-.)-.alpha.-amino-1H-pyrrolo[2,3-b]pyridine-3-propanoic acid Me ester with piperonal followed by N-acylation of the cyclocondensation product with ClCH2COCl and subsequent cyclocondensation of the N-acylated product with MeNH2. The prepd. pyrido[1,2-a]pyrazinediones were tested for their ability to inhibit phosphodiesterase V.

IT **385436-63-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of heterocycles contg. a pyrido[1,2-a]pyrazinedione subunit as phosphodiesterase V inhibitors for the treatment of conditions, such as erectile dysfunction and female arousal disorder)

RN 385436-63-5 CAPLUS

CN 1H-Indole-2-propanoic acid, .alpha.-amino-, ethyl ester, (.alpha.R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:412560 CAPLUS

DOCUMENT NUMBER: 135:195756

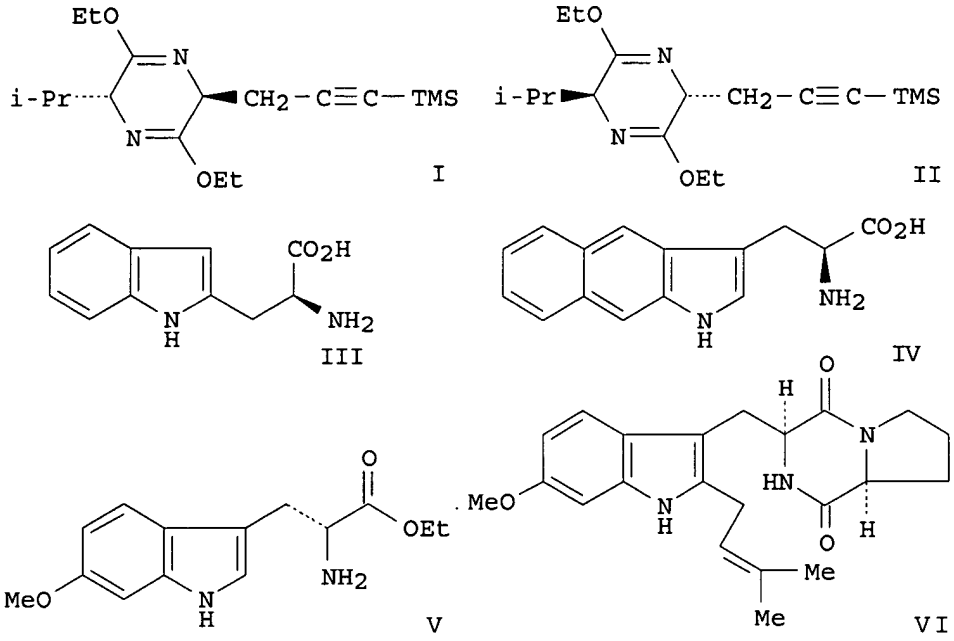
TITLE: Efficient Asymmetric Synthesis of Biologically Important Tryptophan Analogues via a Palladium-Mediated Heteroannulation Reaction

AUTHOR(S): Ma, Chunrong; Liu, Xiaoxiang; Li, Xiaoyan; Flippen-Anderson, Judith; Yu, Shu; Cook, James M.

CORPORATE SOURCE: Department of Chemistry, University of Wisconsin-Milwaukee, Milwaukee, WI, 53201, USA

SOURCE: Journal of Organic Chemistry (2001), 66(13), 4525-4542
CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:195756
GI



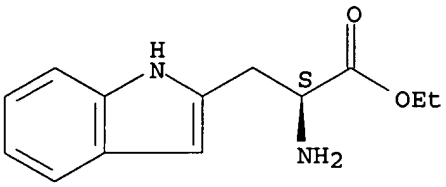
AB A novel and concise synthesis of optically active tryptophan derivs. was developed via a palladium-catalyzed heteroannulation reaction of substituted o-iodoanilines with an internal alkyne. The required internal alkyne I was prepd. in greater than 96% diastereomeric excess via alkylation of the Schollkopf chiral auxiliary, 3,6-diethoxy-2R-isopropyl-2,5-dihydropyrazine with Me3SiC.tplbond.CCH2OP(:O)(OPh)2. Similarly, alkyne II was obtained from the alkylation of 3,6-diethoxy-2S-isopropyl-2,5-dihydropyrazine by TMSC.tplbond.CCH2OP(:O)(OPh)2. I was used as an intermediate in the palladium-catalyzed heteroannulation reaction to afford L-tryptophan analogs, whereas II afforded D-tryptophan analogs. Using this strategy, the first asym. syntheses of L-isotryptophan (III) and L-benz[f]tryptophan (IV) were realized. In addn., the optically pure Et 6-methoxy-D-tryptophanate (V) was prepd. by this protocol on a large scale (>300 g). An improved total synthesis of tryprostatin A (VI) was accomplished in 43% overall yield employing this palladium-mediated process.

IT **355839-89-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(asym. synthesis of tryptophan analogs from iodoanilines and Schollkopf chiral auxiliary-derived alkynes via a palladium-catalyzed heteroannulation reaction)

RN 355839-89-3 CAPLUS

CN 1H-Indole-2-propanoic acid, .alpha.-amino-, ethyl ester, (.alpha.S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

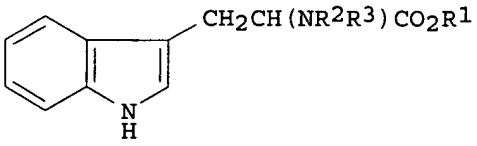


REFERENCE COUNT: 96 THERE ARE 96 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1997:204534 CAPLUS
DOCUMENT NUMBER: 126:194385
TITLE: Magnetic recording material containing tryptophane derivative lubricant
INVENTOR(S): Nishida, Yasuhiro
PATENT ASSIGNEE(S): Sony Corp, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09007165	A2	19970110	JP 1995-148591	19950615

OTHER SOURCE(S): MARPAT 126:194385
GI



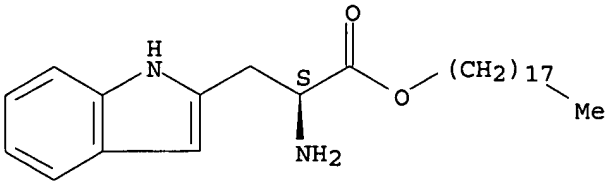
I

AB The recording material has a magnetic layer on a side of a nonmagnetic support and a backcoat layer contg. nonmagnetic powders, a binder, and a tryptophane deriv. I (R1 = C.gtoreq.6 hydrocarbyl; R2, R3 = H, C.gtoreq.1 hydrocarbyl) on the other side of the support. The recording material showed good abrasion resistance and durability.

IT **187546-15-2 187546-16-3 187546-18-5**
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(magnetic recording material contg. tryptophane deriv. lubricant)

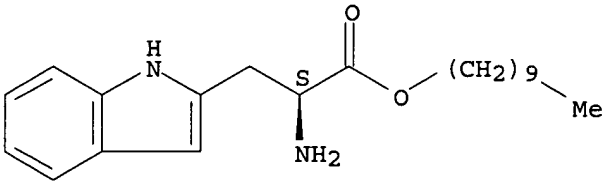
RN 187546-15-2 CAPLUS
CN 1H-Indole-2-propanoic acid, .alpha.-amino-, octadecyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



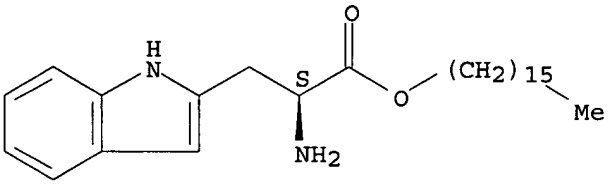
RN 187546-16-3 CAPLUS
CN 1H-Indole-2-propanoic acid, .alpha.-amino-, decyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 187546-18-5 CAPLUS
CN 1H-Indole-2-propanoic acid, .alpha.-amino-, hexadecyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> fil capl

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	340.20

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.86

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FILE LAST UPDATED: 29 Apr 2002 (20020429/ED)

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=> s behl, C?/au
L9          128 BEHL, C?/AU

=> s moosmann, ber?/au
L10          12 MOOSMANN, BER?/AU

=> s l9 and l10
L11          12 L9 AND L10

=> d ti tot

L11  ANSWER 1 OF 12  CAPLUS  COPYRIGHT 2002 ACS
TI   The female sex hormone oestrogen as neuroprotectant: Activities at various
     levels

L11  ANSWER 2 OF 12  CAPLUS  COPYRIGHT 2002 ACS
TI   Neuroprotective properties of cannabinoids against oxidative stress: role
     of the cannabinoid receptor CB1

L11  ANSWER 3 OF 12  CAPLUS  COPYRIGHT 2002 ACS
TI   Secretory peptide hormones are biochemical antioxidants:
     structure-activity relationship

L11  ANSWER 4 OF 12  CAPLUS  COPYRIGHT 2002 ACS
TI   Protective activity of aromatic amines and imines against oxidative nerve
     cell death

L11  ANSWER 5 OF 12  CAPLUS  COPYRIGHT 2002 ACS
TI   Biochemistry and molecular genetics 2000: Neuroprotective activity of
     estrogen

L11  ANSWER 6 OF 12  CAPLUS  COPYRIGHT 2002 ACS
TI   Tyrosine- and tryptophan-containing peptides as antioxidants

L11  ANSWER 7 OF 12  CAPLUS  COPYRIGHT 2002 ACS
TI   Estrogens and other antioxidants in neuroprotection: Implications for
     Alzheimer's disease

L11  ANSWER 8 OF 12  CAPLUS  COPYRIGHT 2002 ACS
TI   Cytoprotective antioxidant function of tyrosine and tryptophan residues in
     transmembrane proteins

L11  ANSWER 9 OF 12  CAPLUS  COPYRIGHT 2002 ACS
TI   Dietary phenols: antioxidants for the brain?

L11  ANSWER 10 OF 12  CAPLUS  COPYRIGHT 2002 ACS
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TI Tryptophanyl esters and their N-acyl derivatives for the prevention and treatment of diseases caused or exacerbated by oxidative processes

L11 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2002 ACS
TI The antioxidant neuroprotective effects of estrogens and phenolic compounds are independent from their estrogenic properties

L11 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2002 ACS
TI Neuroprotective potential of aromatic alcohols against oxidative cell death

=> d tot ibib abs

L11 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2002:127598 CAPLUS
DOCUMENT NUMBER: 136:273302
TITLE: The female sex hormone oestrogen as neuroprotectant: Activities at various levels
AUTHOR(S): **Behl, Christian**; **Moosmann, Bernd**; Manthey, Dieter; Heck, Stefanie
CORPORATE SOURCE: Max-Planck Institute of Psychiatry, Munich, D-80804, Germany
SOURCE: Novartis Foundation Symposium (2000), 230(Neuronal and Cognitive Effects of Oestrogens), 221-238
CODEN: NFSYF7; ISSN: 1528-2511
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review and discussion. The female sex hormone estradiol (estrogen) is a steroidal compd. that binds to specific intracellular receptors which act as transcription factors. Estrogen displays many of its effects by the classical mode of action through receptor binding, transactivation and binding to consensus estrogen response elements on DNA. Although the primary role of estrogen as an ovarian steroid was thought to be the regulation of sex differentiation and maturation, since estrogen receptors are expressed in a variety of other tissues besides sex organs, estrogen is believed to exert multiple activities in several target sites throughout the body, including the nervous system. In the brain estrogens have multiple activities. Potential neuroprotective functions of estrogens are being intensively studied and it is becoming increasingly clear that estrogens are neuroprotective hormones acting via estrogen receptor-dependent pathways at the genomic level and neuroprotective steroidal structures acting independently of the activation of specific estrogen receptors. One striking activity of the mol. estradiol is its intrinsic antioxidant activity which makes it a potential chem. shield for neurons. Nerve cells frequently encounter oxidative challenges during the normal physiol., but also under pathophysiol. conditions. Oxidative stress has been implicated in a variety of neurodegenerative disorders including amyotrophic lateral sclerosis, Parkinson's disease and Alzheimer's disease. It is important to stress that the antioxidant neuroprotective activity of estrogens is independent of estrogen receptor activation, since estrogen derivs. and arom. alcs. that do not bind to estrogen receptors share the same antioxidant neuroprotective activity. Although this effect of estrogens can clearly be sepd. from estrogen receptor binding, estrogens may interact with intracellular signaling pathways, such as the mitogen activated protein kinase, cAMP pathways, and with the activity of the redox-sensitive transcription factor NF-.kappa.B.
REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:127276 CAPLUS
TITLE: Neuroprotective properties of cannabinoids against oxidative stress: role of the cannabinoid receptor CB1
AUTHOR(S): Marsicano, Giovanni; **Moosmann, Bernd**; Hermann, Heike; Lutz, Beat; **Behl, Christian**
CORPORATE SOURCE: Departments of Molecular Genetics of Behavior, Max-Planck-Institute of Psychiatry, Munich, D-80804, Germany
SOURCE: Journal of Neurochemistry (2002), 80(3), 448-456
CODEN: JONRA9; ISSN: 0022-3042
PUBLISHER: Blackwell Publishing Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Neuroprotective effects have been described for many cannabinoids in several neurotoxicity models. However, the exact mechanisms have not been clearly understood yet. In the present study, antioxidant neuroprotective effects of cannabinoids and the involvement of the cannabinoid receptor 1 (CB1) were analyzed in detail employing cell-free biochem. assays and cultured cells. As it was reported for estrogens that the phenolic group is a lead structure for antioxidant neuroprotective effects, eight compds. were classified into three groups. Group A: phenolic compds. that do not bind to CB1. Group B: non-phenolic compds. that bind to CB1. Group C: phenolic compds. that bind to CB1. In the biochem. assays employed, a requirement of the phenolic lead structure for antioxidant activity was shown. The effects paralleled the protective potential of group A and C compds. against oxidative neuronal cell death using the mouse hippocampal HT22 cell line and rat primary cerebellar cell cultures. To elucidate the role of CB1 in neuroprotection, we established stably transfected HT22 cells contg. CB1 and compared the protective potential of cannabinoids with that obsd. in the control transfected HT22 cell line. Furthermore, oxidative stress expts. were performed in cultured cerebellar granule cells, which were derived either from CB1 knock-out mice or from control wild-type littermates. The results strongly suggest that CB1 is not involved in the cellular antioxidant neuroprotective effects of cannabinoids.

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2002:86715 CAPLUS
DOCUMENT NUMBER: 136:257409
TITLE: Secretory peptide hormones are biochemical antioxidants: structure-activity relationship
AUTHOR(S): **Moosmann, Bernd**; **Behl, Christian**
CORPORATE SOURCE: Max Planck Institute of Psychiatry, Munich, Germany
SOURCE: Molecular Pharmacology (2002), 61(2), 260-268
CODEN: MOPMA3; ISSN: 0026-895X
PUBLISHER: American Society for Pharmacology and Experimental Therapeutics
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The secretory peptides LH-releasing hormone, enkephalin, angiotensin, and oxytocin are biochem. antioxidants in aq. medium. These hormones scavenge free peroxyl radicals, prevent the oxidn. of low-d. lipoprotein, and inhibit lipid peroxidn. in brain membranes. Their capacity to directly suppress free radical-mediated reactions is demonstrated by electron-spin resonance spectroscopy. Electrospray ionization-mass spectrometry anal. of the free radical-quenching reaction reveals distinct oxidn. products, including peptide dimers. Moreover, secretory peptide hormones can scavenge reactive nitrogen species derived from nitric oxide and peroxynitrite. An anal. of the structure-activity relationship indicates that their antioxidant activity is derived from the occurrence of

solvent-exposed tyrosine and tryptophan residues, which is consistent with the mass spectrometry results. Significant effects in vitro can be obsd. at nanomolar concns., which makes these peptides comparable in potency with classic antioxidants having low mol. mass. Secretory peptide hormones may constitute an important part of the antioxidant defense system, and the sequences of the described antioxidant peptides may be unique lead structures for the rational design of novel antioxidant drugs having an improved pharmacol. profile.

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:43755 CAPLUS

TITLE: Protective activity of aromatic amines and imines against oxidative nerve cell death

AUTHOR(S): **Moosmann, Bernd**; Skutella, Thomas; Beyer, Klaus; **Behl, Christian**

CORPORATE SOURCE: Max-Planck-Institute of Psychiatry, Munich, D-80804, Germany

SOURCE: Biological Chemistry (2001), 382(11), 1601-1612
CODEN: BICHF3; ISSN: 1431-6730

PUBLISHER: Walter de Gruyter GmbH & Co. KG

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Oxidative stress is a widespread phenomenon in the pathol. of neurodegenerative diseases such as Alzheimer's disease, Parkinson's disease, and amyotrophic lateral sclerosis. Neuronal cell death due to oxidative stress may causally contribute to the pathogeneses of these diseases. Therefore, neuroprotective antioxidants are considered to be a promising approach to slow down disease progression. We have investigated different arom. amine and imine compds. for neuroprotective antioxidant functions in cell culture, and found that these compds. possess excellent cytoprotective potential in diverse paradigms of oxidative neuronal cell death, including clonal cell lines, primary cerebellar neurons, and organotypic hippocampal slice cultures. Arom. amines and imines are effective against oxidative glutamate toxicity, glutathione depletion, and hydrogen peroxide toxicity. Their mode of action as direct antioxidants was exptl. confirmed by ESR spectroscopy, cell-free brain lipid peroxidn. assays, and intracellular peroxide measurements. With half-maximal effective concns. of 20-75 nM in different neuroprotection expts., the arom. imines phenothiazine, phenoxazine, and iminostilbene proved to be about two orders of magnitude more effective than common phenolic antioxidants. This remarkable efficacy could be directly correlated to calcd. properties of the compds. by means of a novel, quant. structure-activity relationship model. We conclude that bridged bisarylimines with a single free NH-bond, such as iminostilbene, are superior neuroprotective antioxidants, and may be promising lead structures for rational drug development.

REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:829188 CAPLUS

DOCUMENT NUMBER: 136:15336

TITLE: Biochemistry and molecular genetics 2000: Neuroprotective activity of estrogen

AUTHOR(S): **Behl, Christian**; **Moosmann, Bernd**

CORPORATE SOURCE: MPI Psychiatrie, Munich, Germany

SOURCE: Nachrichten aus der Chemie (2001), 49(3), 332-336
CODEN: NACHFB; ISSN: 1439-9598

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal; General Review

LANGUAGE: German
AB A review with refs. on neuroprotection by 17.beta.-estradiol including intracellular estrogen receptors, genomic effects, interaction with neuronal membranes of 17.beta.-estradiol, and its function as phenolic antioxidant.
REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:416783 CAPLUS
DOCUMENT NUMBER: 135:14695
TITLE: Tyrosine- and tryptophan-containing peptides as antioxidants
INVENTOR(S): **Moosmann, Bernd; Behl, Christian**
PATENT ASSIGNEE(S): Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V., Germany
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001039791	A2	20010607	WO 2000-EP12177	20001204
WO 2001039791	A3	20011213		
W: CA, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
DE 19958121	A1	20010628	DE 1999-19958121	19991202

PRIORITY APPLN. INFO.: DE 1999-19958121 A 19991202
AB The invention relates to the use of tryptophan-contg., esp. tryptophan- and tyrosine-contg., peptides as antioxidants. The compds. can be used in therapy or as prophylaxis of syndromes or diseases which are accompanied by undesired oxidative processes in the extracellular space. Oral and topical drug delivery systems are prepd., esp. sunscreens. Thus the antioxidant activity of gonadotropin releasing hormones (human, salmon and lamprey), synthetic peptides and dermorphin were tested in a B-phycoerythrin buffer system with peroxide radicals from 2,2'-azobis-2-methylpropionamidine; decrease of fluorescence was detected, the peptides showed similar antioxidative activity.

L11 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:743978 CAPLUS
DOCUMENT NUMBER: 134:37103
TITLE: Estrogens and other antioxidants in neuroprotection: Implications for Alzheimer's disease
AUTHOR(S): **Behl, Christian; Moosmann, Bernd**
CORPORATE SOURCE: Max Planck Institute of Psychiatry, Munich, Germany
SOURCE: Oxidative Stress and Disease (2000), 5(Free Radicals in Brain Pathophysiology), 467-485
CODEN: OSDIFK
PUBLISHER: Marcel Dekker, Inc.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review, with 90 refs. The following topics are discussed: oxidative stress and Alzheimer's disease; antioxidants in neuroprotectants in vitro; estrogen and free radical scavengers; arom. alcs. and basic structure of a phenolic antioxidant; design of candidate neuroprotective phenol antioxidants; antioxidants in clin. use.
REFERENCE COUNT: 90 THERE ARE 90 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:675854 CAPLUS
DOCUMENT NUMBER: 134:1834
TITLE: Cytoprotective antioxidant function of tyrosine and tryptophan residues in transmembrane proteins
AUTHOR(S): **Moosmann, Bernd; Behl, Christian**
CORPORATE SOURCE: Institute for Biochemistry, Free University of Berlin, Germany
SOURCE: European Journal of Biochemistry (2000), 267(18), 5687-5692
CODEN: EJBCAI; ISSN: 0014-2956
PUBLISHER: Blackwell Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The transmembrane domains of integral membrane proteins show an astounding accumulation of tyrosine and tryptophan residues, esp. in the region of the highest lipid d. We found that these residues perform vital antioxidant functions inside lipid bilayers and protect cells from oxidative destruction. First, tyrosine- and tryptophan-contg. peptides representing stretches from the transmembrane domains of different integral membrane proteins, including presenilin and the cystic fibrosis transmembrane conductance regulator, prevent oxidative lysis in clonal and primary cells. Second, long-chain acylated tyrosine and tryptophan, but not phenylalanine or short-chain acylated derivs., are potent inhibitors of lipid peroxidn. and oxidative cell death. The antioxidant functions of tyrosine and tryptophan may provide a specific explanation for (a) their unique transmembrane distribution pattern and (b) the high vulnerability of low-protein neuronal membranes to oxidative stress, as seen in neurodegenerative disorders.
REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:307920 CAPLUS
DOCUMENT NUMBER: 133:119685
TITLE: Dietary phenols: antioxidants for the brain?
AUTHOR(S): **Moosmann, Bernd; Behl, Christian**
CORPORATE SOURCE: Neurodegeneration Group, Max Planck Institute of Psychiatry, Munich, D-80804, Germany
SOURCE: Nutritional Neuroscience (2000), 3(1), 1-10
CODEN: NNINFE; ISSN: 1028-415X
PUBLISHER: Harwood Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Human diet contains numerous phenolic compds. which have been shown to exert protective antioxidant effects in cellular paradigms of oxidative cell death relevant to neurodegenerative disorders. Since reliable in vivo data are scarce, the question whether dietary phenols may act as beneficial neuroprotective agents in the human brain can only be estd. from the chem. compn. of the diet with respect to phenolic compds., their resorption, their metabolic fate, and their ability to cross the blood-brain barrier. We conclude that antioxidant neuroprotection by natural phenolic compds. is highly questionable. Therefore, dietary supplementation with specifically designed phenolic antioxidants has to be in the center of interest. We outline some chem. structural principles of such designer mols., focusing on a decreased impact on hormone receptors and the absence of pro-oxidant side-effects.
REFERENCE COUNT: 73 THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:190909 CAPLUS
DOCUMENT NUMBER: 132:231975
TITLE: Tryptophanyl esters and their N-acyl derivatives for the prevention and treatment of diseases caused or exacerbated by oxidative processes
INVENTOR(S): **Behl, Christian; Moosmann, Bernd**
PATENT ASSIGNEE(S): Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V., Germany
SOURCE: PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000015206	A2	20000323	WO 1999-EP6819	19990915
WO 2000015206	A3	20000810		
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19842416	A1	20000413	DE 1998-19842416	19980916
EP 1113795	A2	20010711	EP 1999-947352	19990915
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 2001014695	A1	20010816	US 2001-810152	20010316

PRIORITY APPLN. INFO.: DE 1998-19842416 A 19980916
WO 1999-EP6819 W 19990915

AB Tryptophanyl esters or their N-acyl derivs. are useful for prophylaxis and treatment of oxidative pathol. processes in degenerative diseases and/or carcinomas. Preferred compds. are tryptophan octyl ester, N-oleoyltryptophan Et ester, and N-dodecanoyltryptophan Et ester. The compds. are used for treatment and/or prophylaxis of neurodegenerative diseases, cataracts, neoplastic diseases, and/or cardiovascular diseases, esp. for Alzheimer's disease, Parkinson's disease, stroke, amyotrophic lateral sclerosis, cancer, arteriosclerosis, and/or myocardial infarction. Thus, tryptophan octyl ester (.gtoreq.4 nM) protected human neuroblastoma cells in vitro from oxidative stress damage (160 .mu.M H2O2).

L11 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1999:503924 CAPLUS
DOCUMENT NUMBER: 131:252667
TITLE: The antioxidant neuroprotective effects of estrogens and phenolic compounds are independent from their estrogenic properties
AUTHOR(S): **Moosmann, Bernd; Behl, Christian**
CORPORATE SOURCE: Max Planck Institute of Psychiatry, Munich, 80804, Germany
SOURCE: Proceedings of the National Academy of Sciences of the United States of America (1999), 96(16), 8867-8872
CODEN: PNASA6; ISSN: 0027-8424
PUBLISHER: National Academy of Sciences
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Among the family of steroidal mols., only estrogens have the capability of preventing neuronal cell death caused by increased oxidative burden. Employing neuronal cell lines, brain membrane, and low d. lipoprotein oxidn. assays, we show that the antioxidant and neuroprotective effects of estrogens are dependent not on their genomic properties as hormones but rather on their basic chem. properties as hydrophobic phenolic mols.

Concns. of 17.beta.-estradiol of 0.1-500 nM, which confer max. estrogen receptor-dependent gene transcription in vitro as well as max. estrogen receptor binding, resp., do not show antioxidant or neuroprotective effects. In contrast, phenolic compds. such as 2,4,6-trimethylphenol, N-acetylserotonin, and 5-hydroxyindole exhibit neuroprotective effects without any estrogenicity. Comparing various natural and synthetic mono- and polyphenolic compds., no correlation between their antioxidant cytoprotective effect and their estrogenic potency can be seen. These results call into question the idea of a general correlation between the intended pharmacol. effects of estrogens and phenolic compds. and their effect on estrogen receptor-dependent pathways. Furthermore, they may open the door toward the rational design of neuroprotective antioxidants with decreased hormonal side effects.

REFERENCE COUNT: 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1997:555711 CAPLUS
DOCUMENT NUMBER: 127:242809
TITLE: Neuroprotective potential of aromatic alcohols against oxidative cell death
AUTHOR(S): **Moosmann, Bernd**; Uhr, Manfred; **Behl, Christian**
CORPORATE SOURCE: Max-Planck-Institute of Psychiatry, Clinical Institute, Kraepelinstrasse 10, Munich, 80804, Germany
SOURCE: FEBS Lett. (1997), 413(3), 467-472
CODEN: FEBLAL; ISSN: 0014-5793
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Estrogens can protect neurons against oxidative stress-induced cell death due to their antioxidant potential. Here, we report that other arom. alcs. with intact phenolic groups and different phenol derivs. can also protect neurons against oxidative cell death induced by glutamate and hydrogen peroxide in vitro. This neuroprotective activity was independent of the time the compd. was added before the toxin. Methylation of the phenolic hydroxyl group led to a decrease or loss in neuroprotection. Moreover, the tested compds. directly inhibited peroxidn. reactions, suggesting that neuroprotection is mediated by their antioxidant properties.

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	35.31	375.51

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.43	-9.29

FILE 'STNGUIDE' ENTERED AT 10:35:47 ON 01 MAY 2002

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 26, 2002 (20020426/UP).

=> fil capl

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION

FULL ESTIMATED COST	1.08	376.59

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-9.29

FILE 'CAPLUS' ENTERED AT 10:46:51 ON 01 MAY 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 1 May 2002 VOL 136 ISS 18
FILE LAST UPDATED: 29 Apr 2002 (20020429/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> sel rn l11 10
E6 THROUGH E51 ASSIGNED

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.48	377.07

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-9.29

FILE 'REGISTRY' ENTERED AT 10:47:06 ON 01 MAY 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

STRUCTURE FILE UPDATES: 29 APR 2002 HIGHEST RN 409058-68-0
DICTIONARY FILE UPDATES: 29 APR 2002 HIGHEST RN 409058-68-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS

Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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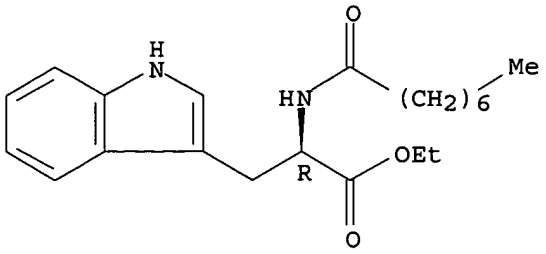
               3/BI OR 261734-93-4/BI OR 76733-49-8/BI OR 92520-19-9/BI)

=> d scan

L12  46 ANSWERS   REGISTRY  COPYRIGHT 2002 ACS
IN   D-Tryptophan, N-(1-oxooctyl)-, ethyl ester (9CI)
MF   C21 H30 N2 O3

Absolute stereochemistry.
```

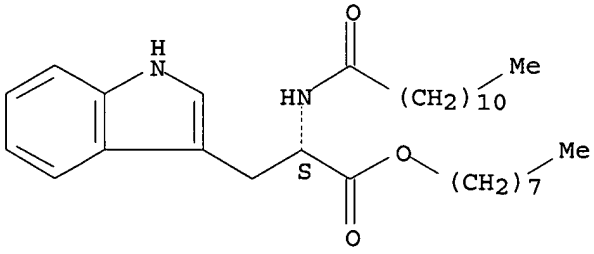


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):45

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-(1-oxododecyl)-, octyl ester (9CI)
MF C31 H50 N2 O3

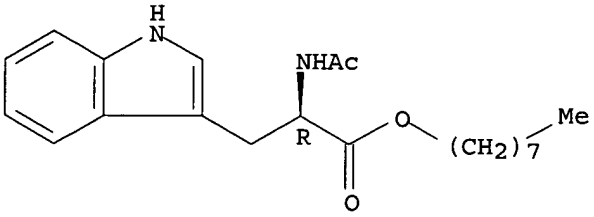
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-acetyl-, octyl ester (9CI)
MF C21 H30 N2 O3

Absolute stereochemistry.

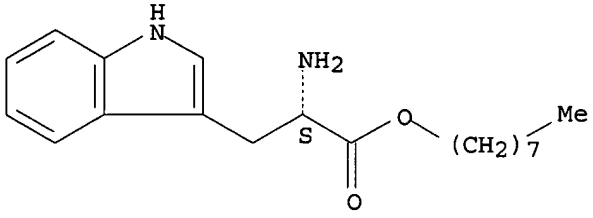


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS

IN L-Tryptophan, octyl ester (9CI)
MF C19 H28 N2 O2

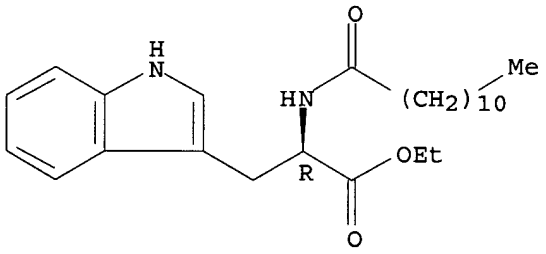
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-(1-oxododecyl)-, ethyl ester (9CI)
MF C25 H38 N2 O3

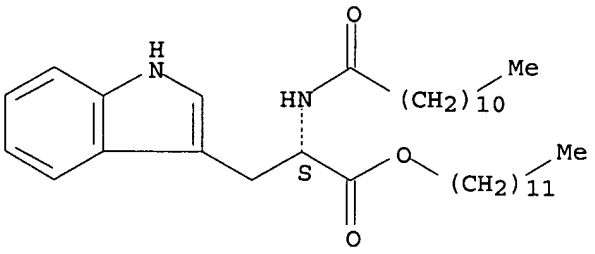
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-(1-oxododecyl)-, dodecyl ester (9CI)
MF C35 H58 N2 O3

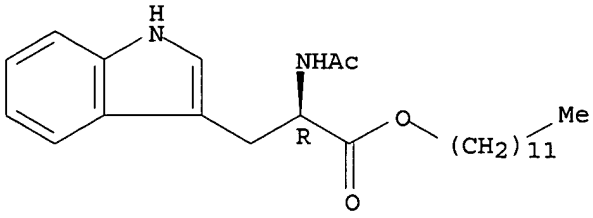
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-acetyl-, dodecyl ester (9CI)
MF C25 H38 N2 O3

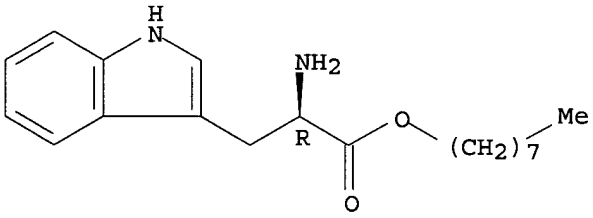
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, octyl ester (9CI)
MF C19 H28 N2 O2

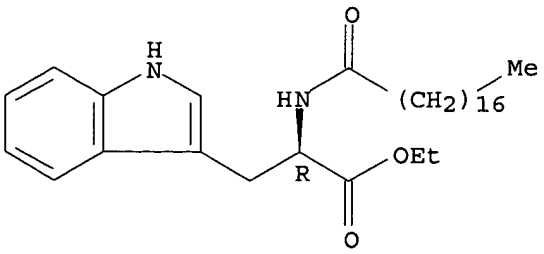
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-(1-oxooctadecyl)-, ethyl ester (9CI)
MF C31 H50 N2 O3

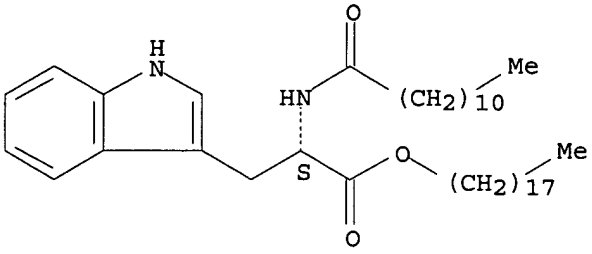
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-(1-oxododecyl)-, octadecyl ester (9CI)
MF C41 H70 N2 O3

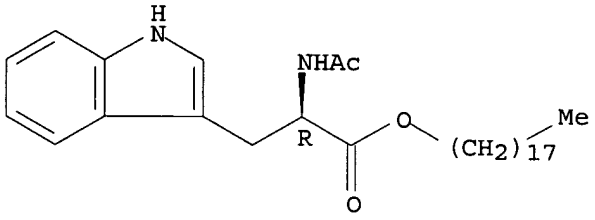
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-acetyl-, octadecyl ester (9CI)
MF C31 H50 N2 O3

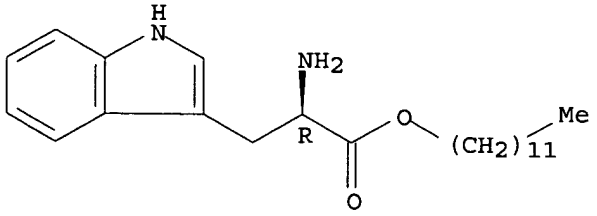
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, dodecyl ester (9CI)
MF C23 H36 N2 O2

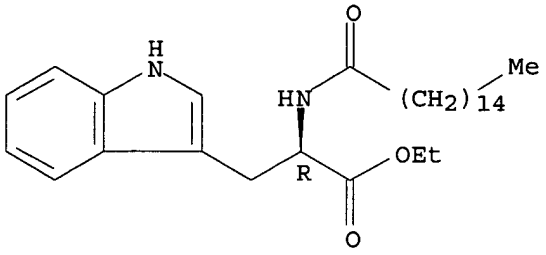
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-(1-oxohexadecyl)-, ethyl ester (9CI)
MF C29 H46 N2 O3

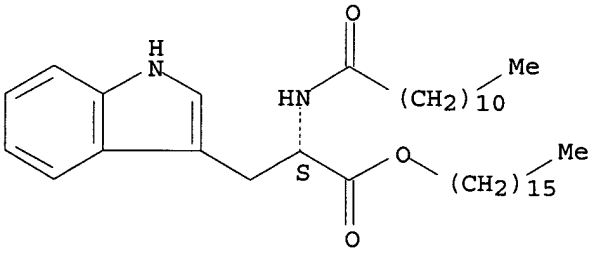
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-(1-oxododecyl)-, hexadecyl ester (9CI)
MF C39 H66 N2 O3

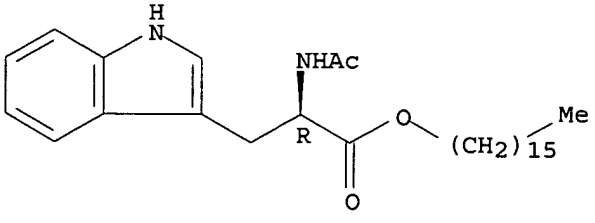
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-acetyl-, hexadecyl ester (9CI)
MF C29 H46 N2 O3

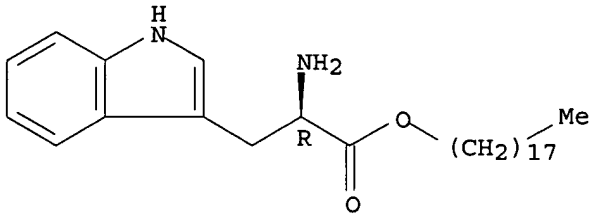
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, octadecyl ester (9CI)
MF C29 H48 N2 O2

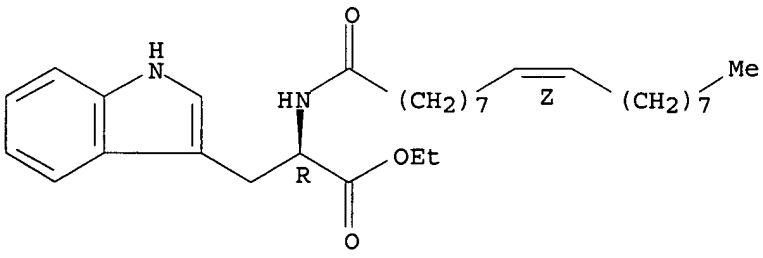
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-[(9Z)-1-oxo-9-octadecenyl]-, ethyl ester (9CI)
MF C31 H48 N2 O3

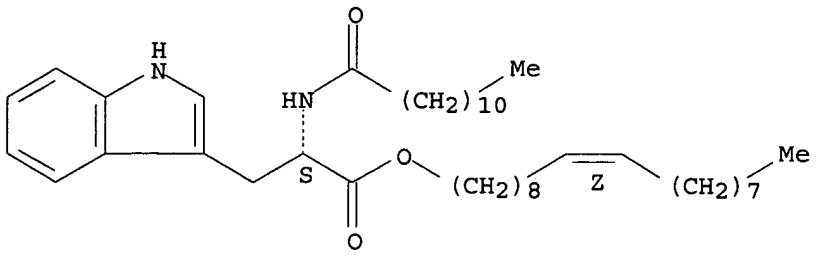
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-(1-oxododecyl)-, (9Z)-9-octadecenyl ester (9CI)
MF C41 H68 N2 O3

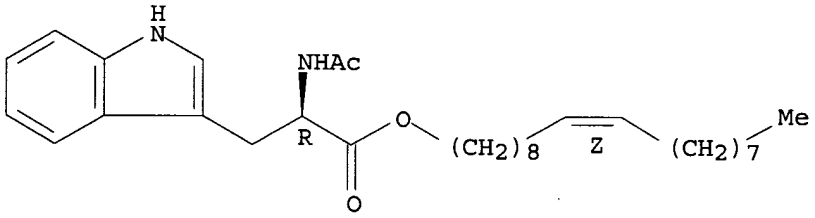
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-acetyl-, (9Z)-9-octadecenyl ester (9CI)
MF C31 H48 N2 O3

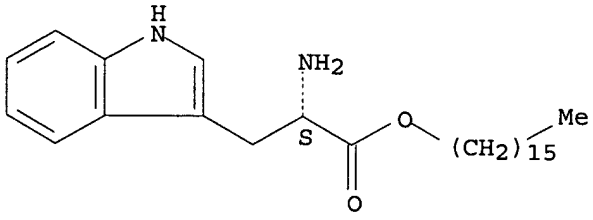
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, hexadecyl ester (9CI)
MF C27 H44 N2 O2

Absolute stereochemistry.

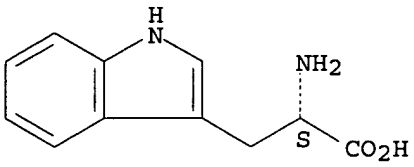


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan (9CI)
MF C11 H12 N2 O2

CI COM

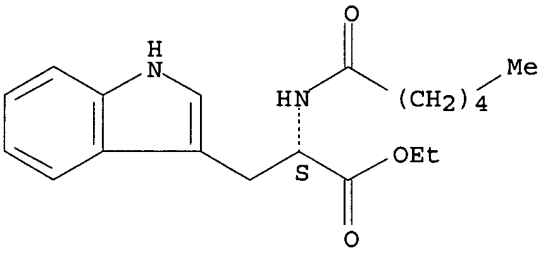
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-(1-oxohexyl)-, ethyl ester (9CI)
MF C19 H26 N2 O3

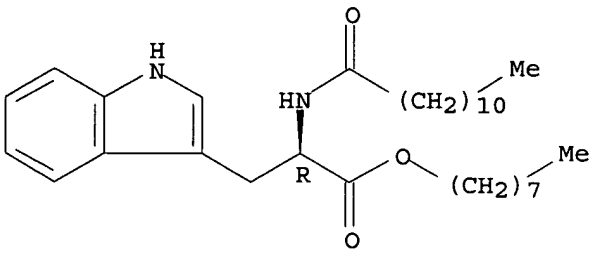
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-(1-oxododecyl)-, octyl ester (9CI)
MF C31 H50 N2 O3

Absolute stereochemistry.

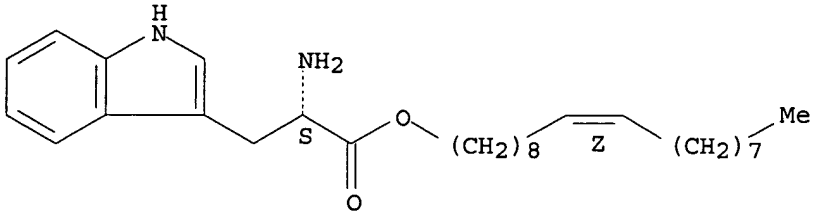


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, (9Z)-9-octadecenyl ester (9CI)

MF C29 H46 N2 O2

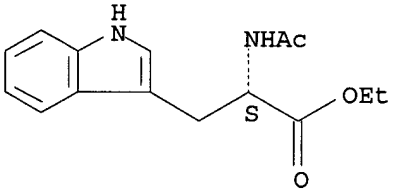
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-acetyl-, ethyl ester (9CI)
MF C15 H18 N2 O3

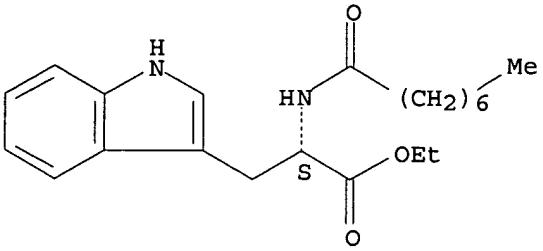
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-(1-oxooctyl)-, ethyl ester (9CI)
MF C21 H30 N2 O3

Absolute stereochemistry.

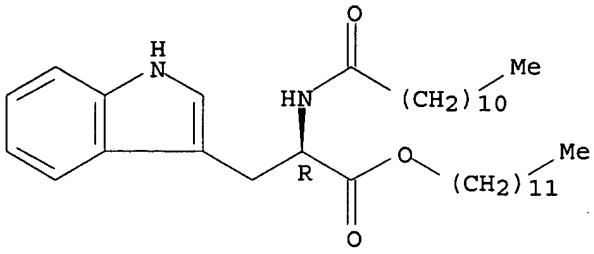


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS

IN D-Tryptophan, N-(1-oxododecyl)-, dodecyl ester (9CI)
MF C35 H58 N2 O3

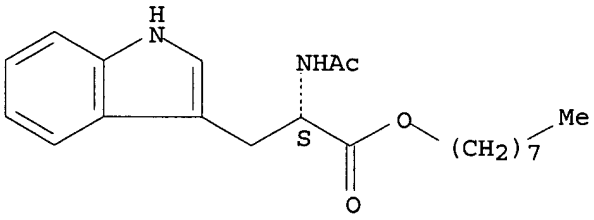
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-acetyl-, octyl ester (9CI)
MF C21 H30 N2 O3

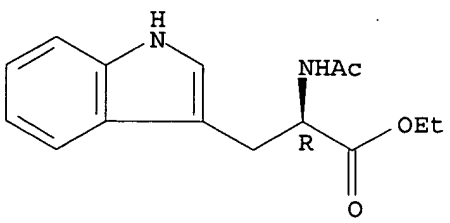
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-acetyl-, ethyl ester (9CI)
MF C15 H18 N2 O3

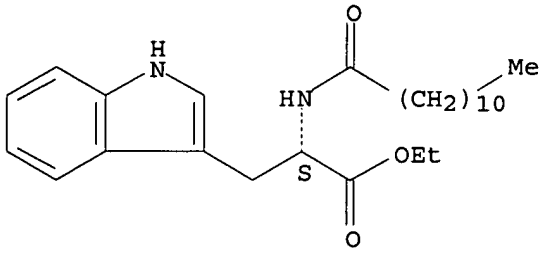
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-(1-oxododecyl)-, ethyl ester (9CI)
MF C25 H38 N2 O3

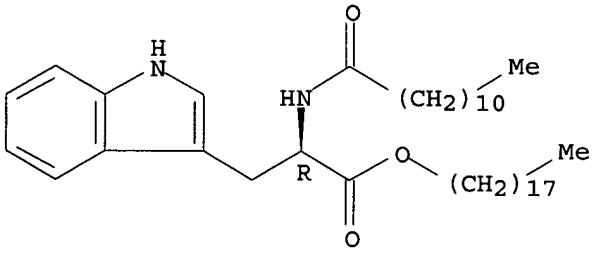
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-(1-oxododecyl)-, octadecyl ester (9CI)
MF C41 H70 N2 O3

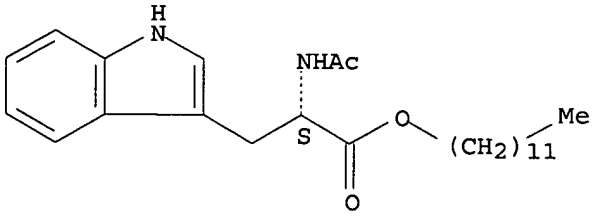
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-acetyl-, dodecyl ester (9CI)
MF C25 H38 N2 O3

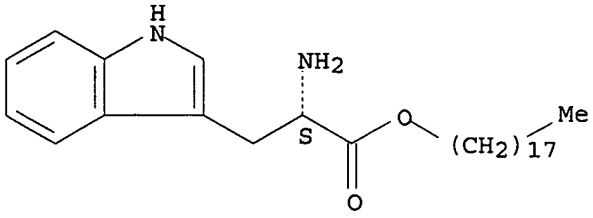
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, octadecyl ester (9CI)
MF C29 H48 N2 O2
CI COM

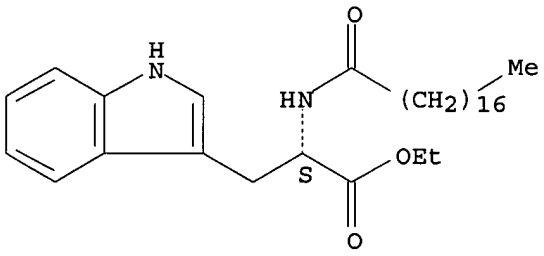
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-(1-oxooctadecyl)-, ethyl ester (9CI)
MF C31 H50 N2 O3

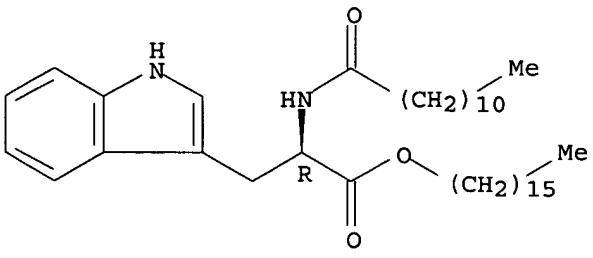
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-(1-oxododecyl)-, hexadecyl ester (9CI)
MF C39 H66 N2 O3

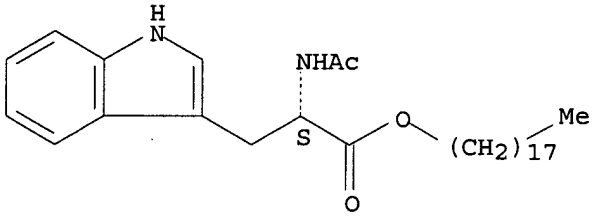
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-acetyl-, octadecyl ester (9CI)
MF C31 H50 N2 O3

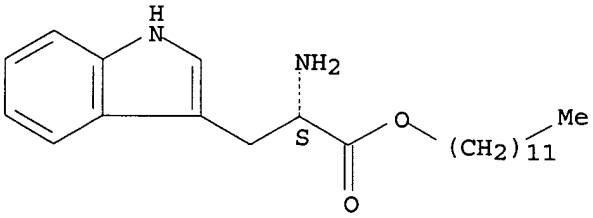
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, dodecyl ester (9CI)
MF C23 H36 N2 O2

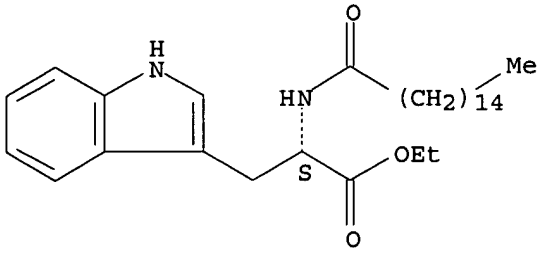
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-(1-oxohexadecyl)-, ethyl ester (9CI)
MF C29 H46 N2 O3

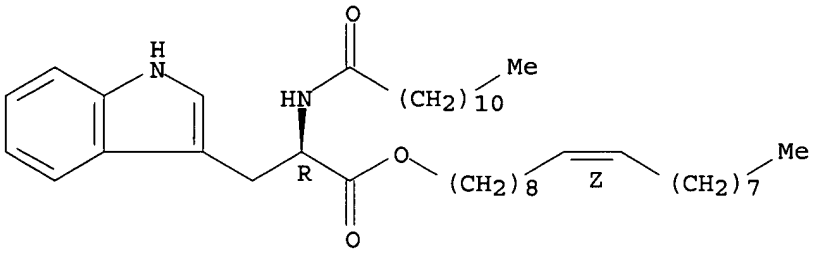
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-(1-oxododecyl)-, (9Z)-9-octadecenyl ester (9CI)
MF C41 H68 N2 O3

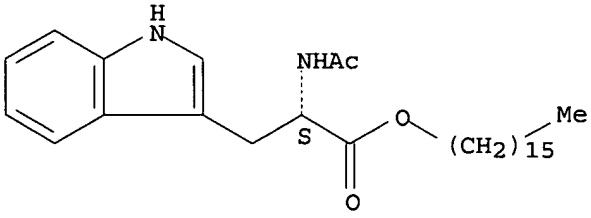
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-acetyl-, hexadecyl ester (9CI)
MF C29 H46 N2 O3

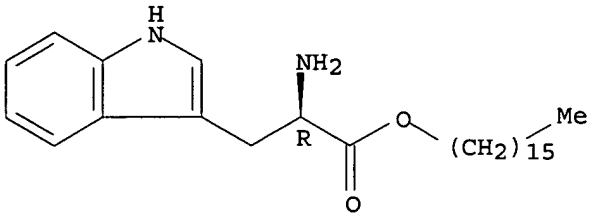
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, hexadecyl ester (9CI)
MF C27 H44 N2 O2

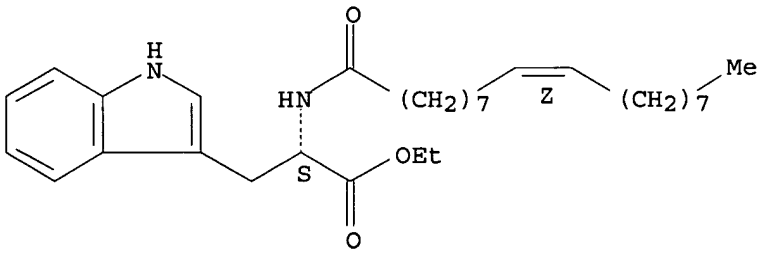
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN L-Tryptophan, N-[(9Z)-1-oxo-9-octadecenyl]-, ethyl ester (9CI)
MF C31 H48 N2 O3

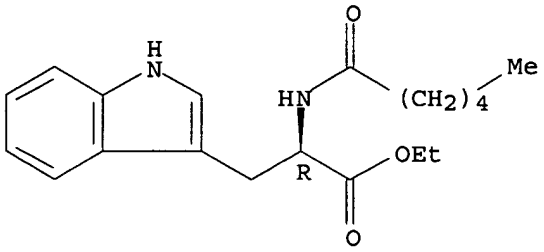
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, N-(1-oxohexyl)-, ethyl ester (9CI)
MF C19 H26 N2 O3

Absolute stereochemistry.

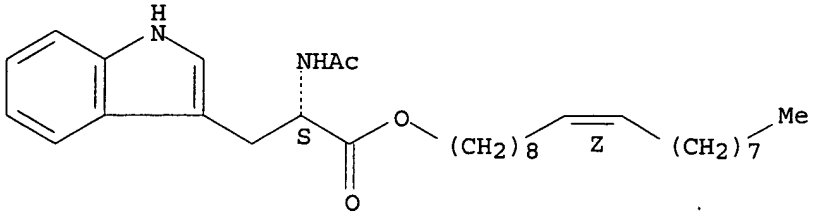


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS

IN L-Tryptophan, N-acetyl-, (9Z)-9-octadecenyl ester (9CI)
MF C31 H48 N2 O3

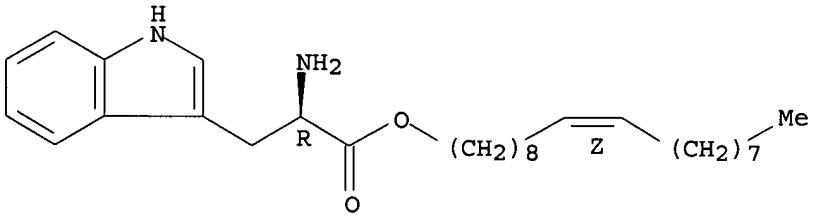
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan, (9Z)-9-octadecenyl ester (9CI)
MF C29 H46 N2 O2

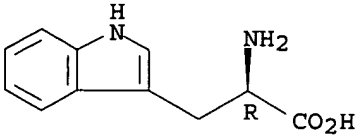
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 46 ANSWERS REGISTRY COPYRIGHT 2002 ACS
IN D-Tryptophan (9CI)
MF C11 H12 N2 O2
CI COM

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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=> fil medlin capl biosis uspatfull wpid
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.76     377.83

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                         0.00      -9.29

FILE 'MEDLINE' ENTERED AT 10:48:03 ON 01 MAY 2002

FILE 'CAPLUS' ENTERED AT 10:48:03 ON 01 MAY 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE 'BIOSIS' ENTERED AT 10:48:03 ON 01 MAY 2002
COPYRIGHT (C) 2002 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'USPATFULL' ENTERED AT 10:48:03 ON 01 MAY 2002
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'WPIDS' ENTERED AT 10:48:03 ON 01 MAY 2002
COPYRIGHT (C) 2002 THOMSON DERWENT

=> s l12
L13      65103 L12

=> fil reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        15.54     393.37

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                         0.00      -9.29

FILE 'REGISTRY' ENTERED AT 10:50:13 ON 01 MAY 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 American Chemical Society (ACS)

STRUCTURE FILE UPDATES:   29 APR 2002  HIGHEST RN 409058-68-0
DICTIONARY FILE UPDATES:  29 APR 2002  HIGHEST RN 409058-68-0

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

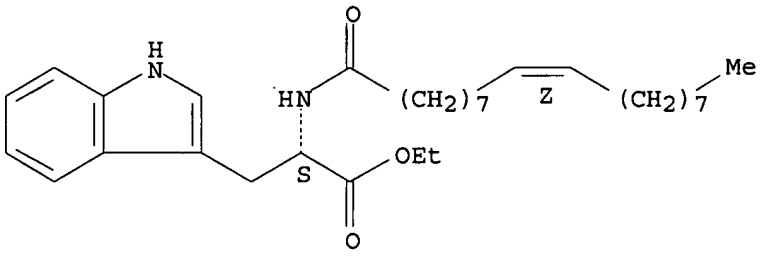
Calculated physical property data is now available.  See HELP PROPERTIES
for more information.  See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> d l12 tot

L12  ANSWER 1 OF 46  REGISTRY  COPYRIGHT 2002 ACS
```

RN **261734-93-4** REGISTRY
CN L-Tryptophan, N-[(9Z)-1-oxo-9-octadecenyl]-, ethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H48 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.
Double bond geometry as shown.

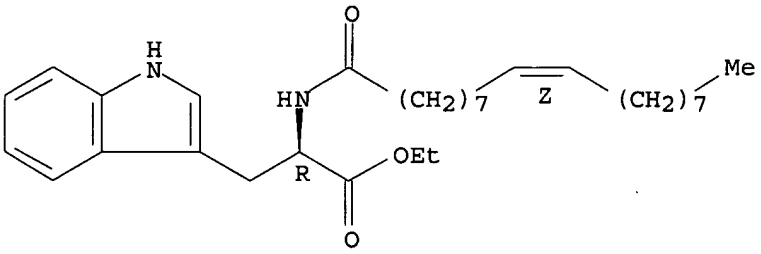


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 2 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-92-3** REGISTRY
CN D-Tryptophan, N-[(9Z)-1-oxo-9-octadecenyl]-, ethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H48 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.
Double bond geometry as shown.



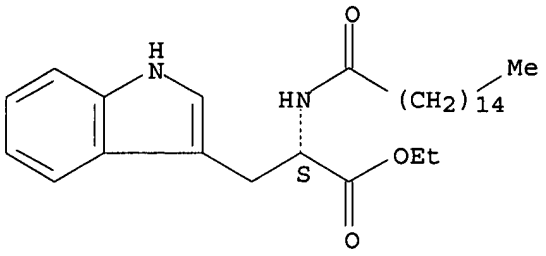
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 3 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-91-2** REGISTRY
CN L-Tryptophan, N-(1-oxohexadecyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H46 N2 O3

SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

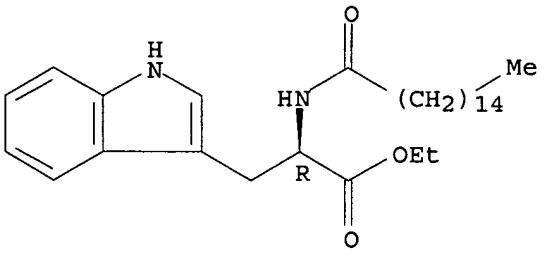


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 4 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-90-1** REGISTRY
CN D-Tryptophan, N-(1-oxohexadecyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H46 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

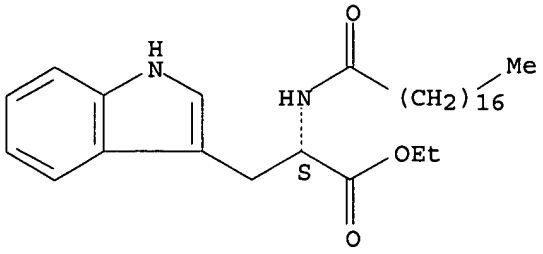


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 5 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-89-8** REGISTRY
CN L-Tryptophan, N-(1-oxooctadecyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H50 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

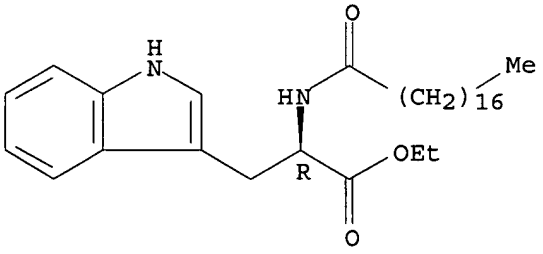


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 6 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-88-7** REGISTRY
CN D-Tryptophan, N-(1-oxooctadecyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H50 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

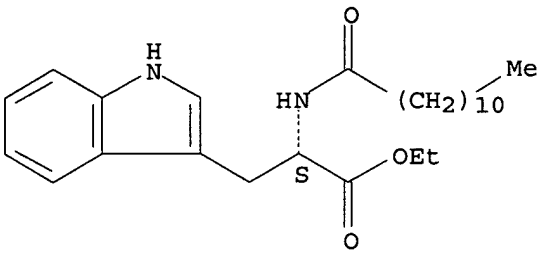


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 7 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-87-6** REGISTRY
CN L-Tryptophan, N-(1-oxododecyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H38 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

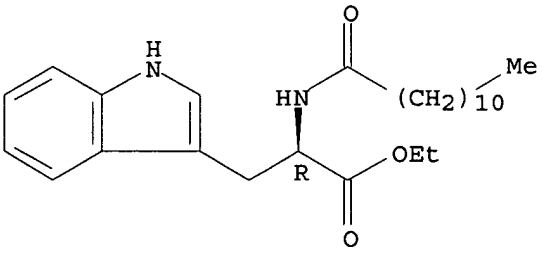


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 8 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-86-5** REGISTRY
CN D-Tryptophan, N-(1-oxododecyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H38 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

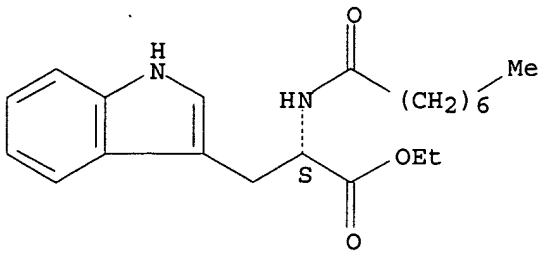


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 9 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-83-2** REGISTRY
CN L-Tryptophan, N-(1-oxooctyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H30 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

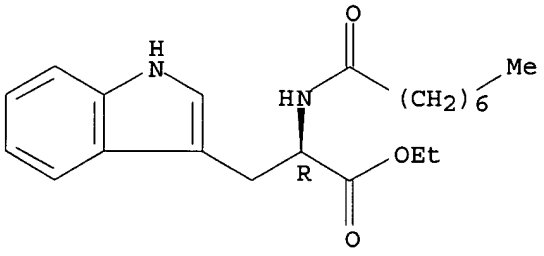


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 10 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-82-1** REGISTRY
CN D-Tryptophan, N-(1-oxooctyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H30 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

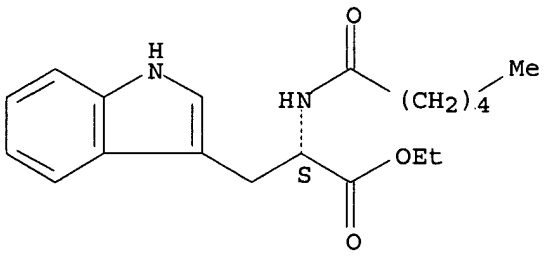


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 11 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-79-6** REGISTRY
CN L-Tryptophan, N-(1-oxohexyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C19 H26 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

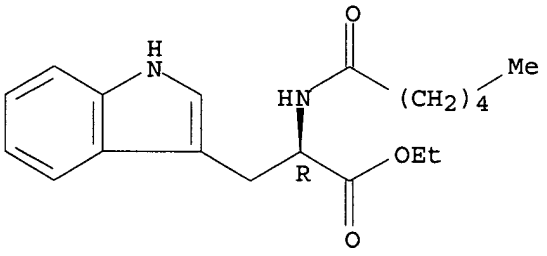


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 12 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-78-5** REGISTRY
CN D-Tryptophan, N-(1-oxohexyl)-, ethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C19 H26 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

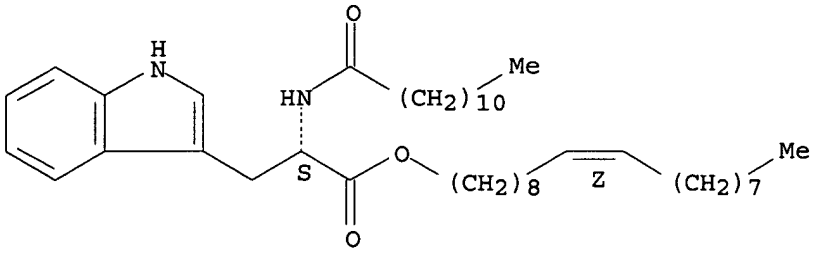


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 13 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-76-3** REGISTRY
CN L-Tryptophan, N-(1-oxododecyl)-, (9Z)-9-octadecenyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C41 H68 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.
Double bond geometry as shown.

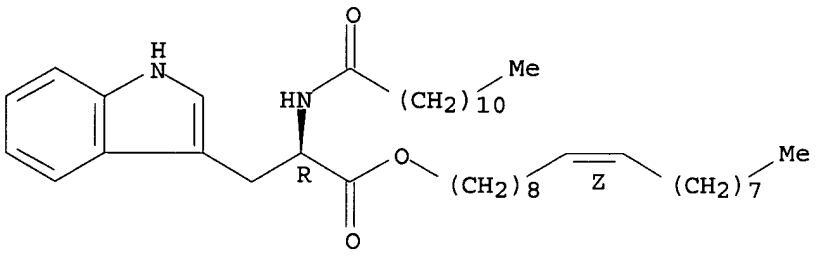


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 14 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-75-2** REGISTRY
CN D-Tryptophan, N-(1-oxododecyl)-, (9Z)-9-octadecenyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C41 H68 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.
Double bond geometry as shown.

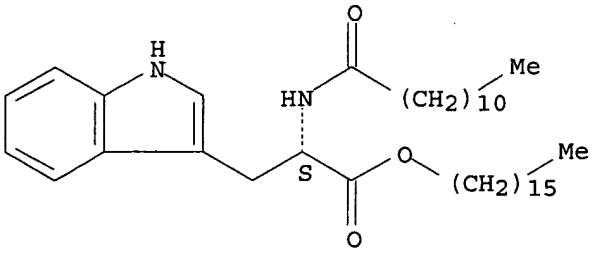


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 15 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-74-1** REGISTRY
CN L-Tryptophan, N-(1-oxododecyl)-, hexadecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C39 H66 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

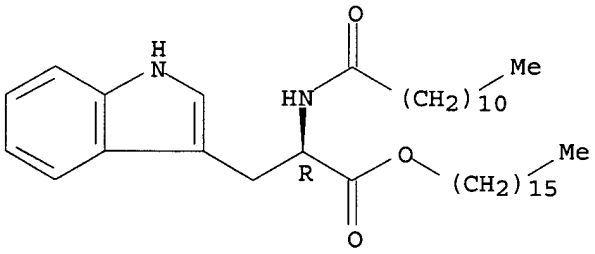


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 16 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-73-0** REGISTRY
CN D-Tryptophan, N-(1-oxododecyl)-, hexadecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C39 H66 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

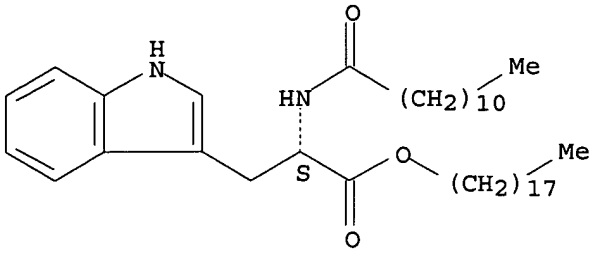


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 17 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-72-9** REGISTRY
CN L-Tryptophan, N-(1-oxododecyl)-, octadecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C41 H70 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

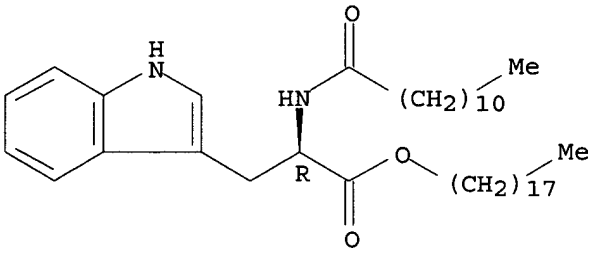


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 18 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-71-8** REGISTRY
CN D-Tryptophan, N-(1-oxododecyl)-, octadecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C41 H70 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

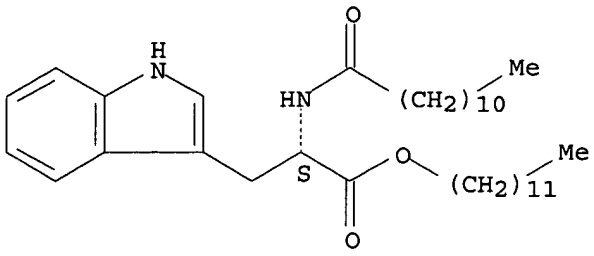


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 19 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-70-7** REGISTRY
CN L-Tryptophan, N-(1-oxododecyl)-, dodecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C35 H58 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

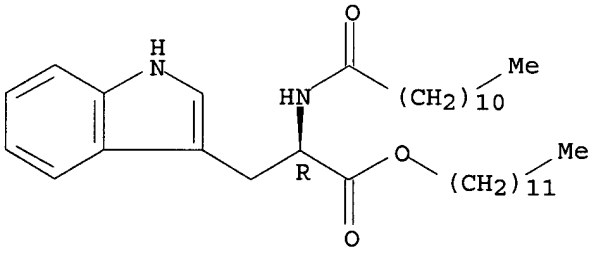


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 20 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-69-4** REGISTRY
CN D-Tryptophan, N-(1-oxododecyl)-, dodecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C35 H58 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

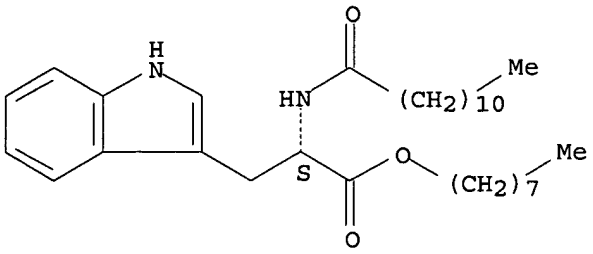


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 21 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-68-3** REGISTRY
CN L-Tryptophan, N-(1-oxododecyl)-, octyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H50 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

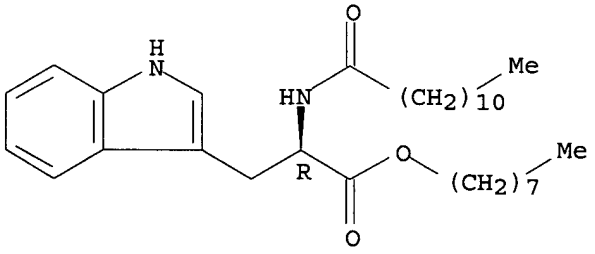


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 22 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-67-2** REGISTRY
CN D-Tryptophan, N-(1-oxododecyl)-, octyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H50 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

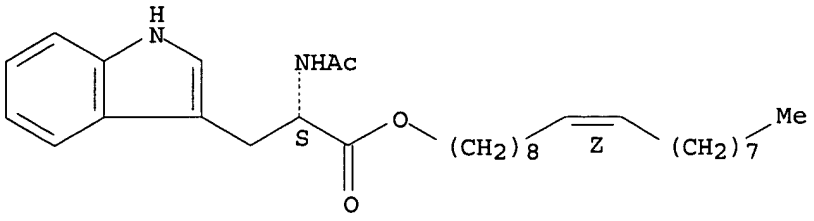


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 23 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-66-1** REGISTRY
CN L-Tryptophan, N-acetyl-, (9Z)-9-octadecenyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H48 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.
Double bond geometry as shown.

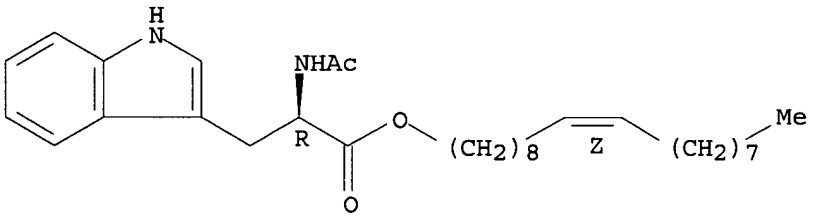


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 24 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-65-0** REGISTRY
CN D-Tryptophan, N-acetyl-, (9Z)-9-octadecenyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H48 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.
Double bond geometry as shown.

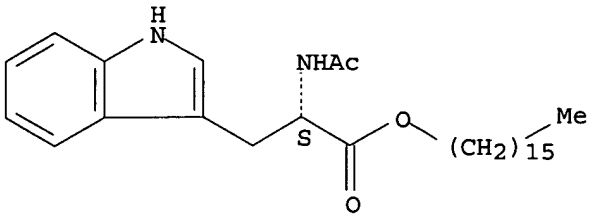


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 25 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-64-9** REGISTRY
CN L-Tryptophan, N-acetyl-, hexadecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H46 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

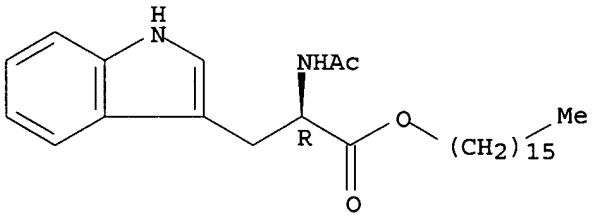


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 26 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-63-8** REGISTRY
CN D-Tryptophan, N-acetyl-, hexadecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H46 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

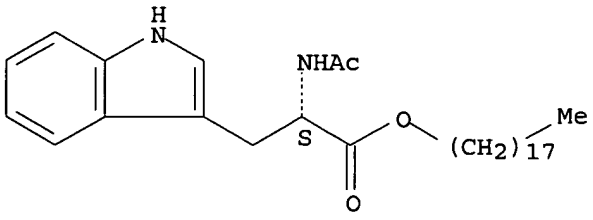


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 27 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-62-7** REGISTRY
CN L-Tryptophan, N-acetyl-, octadecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H50 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

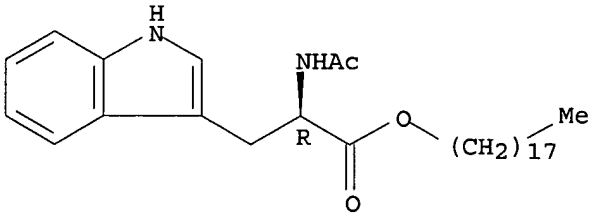


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 28 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-61-6** REGISTRY
CN D-Tryptophan, N-acetyl-, octadecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H50 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

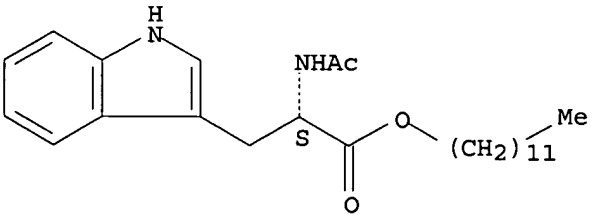


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 29 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-60-5** REGISTRY
CN L-Tryptophan, N-acetyl-, dodecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H38 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



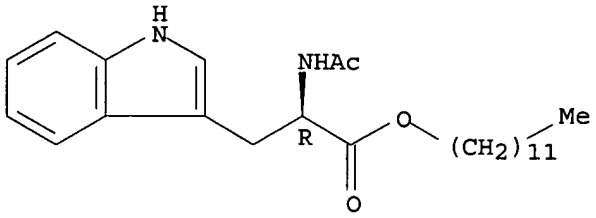
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 30 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-59-2** REGISTRY
CN D-Tryptophan, N-acetyl-, dodecyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH
MF C25 H38 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

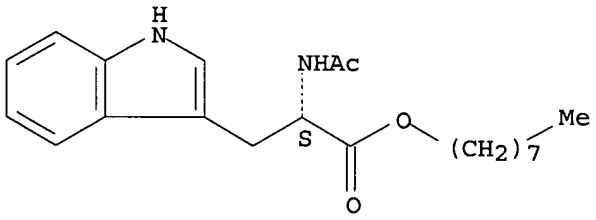


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 31 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-58-1** REGISTRY
CN L-Tryptophan, N-acetyl-, octyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H30 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

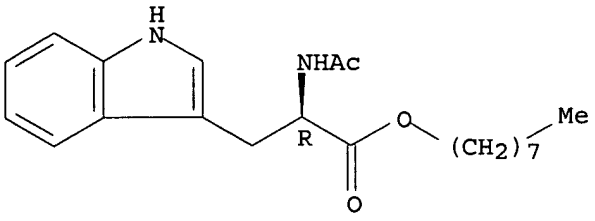


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 32 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-56-9** REGISTRY
CN D-Tryptophan, N-acetyl-, octyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H30 N2 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

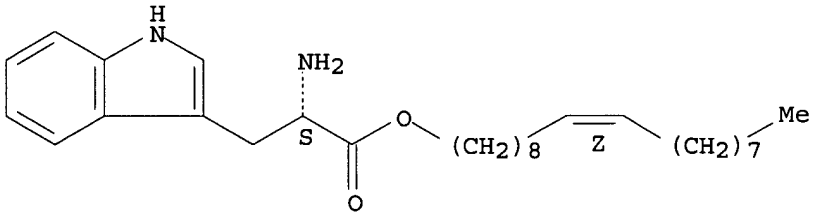


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 33 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-55-8** REGISTRY
CN L-Tryptophan, (9Z)-9-octadecenyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H46 N2 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.
Double bond geometry as shown.

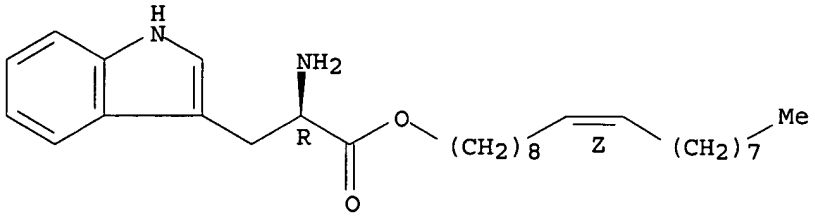


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 34 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-54-7** REGISTRY
CN D-Tryptophan, (9Z)-9-octadecenyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H46 N2 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.
Double bond geometry as shown.

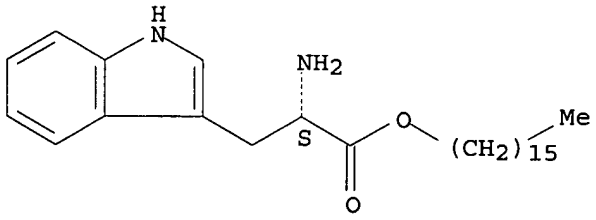


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 35 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-53-6** REGISTRY
CN L-Tryptophan, hexadecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H44 N2 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

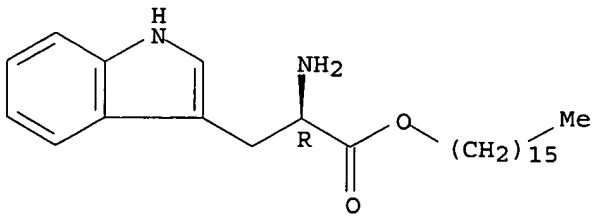


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 36 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-52-5** REGISTRY
CN D-Tryptophan, hexadecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C27 H44 N2 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

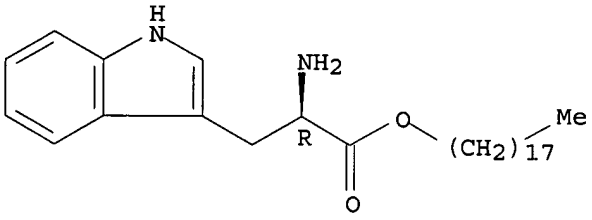


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 37 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-51-4** REGISTRY
CN D-Tryptophan, octadecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H48 N2 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

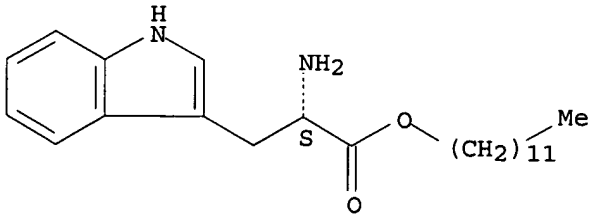


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 38 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-50-3** REGISTRY
CN L-Tryptophan, dodecyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H36 N2 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



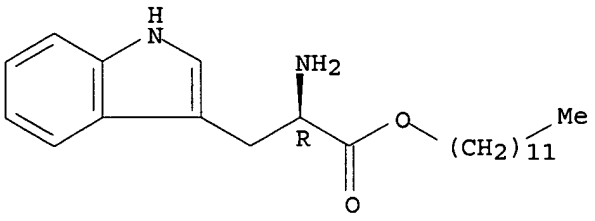
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 39 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **261734-49-0** REGISTRY
CN D-Tryptophan, dodecyl ester (9CI) (CA INDEX NAME)

FS STEREOSEARCH
MF C23 H36 N2 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

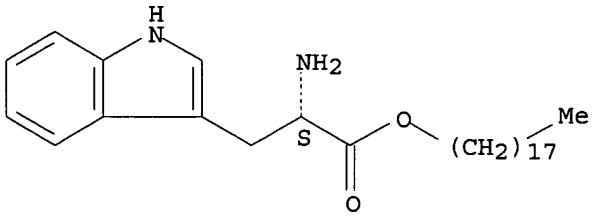


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 40 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **150374-83-7** REGISTRY
CN L-Tryptophan, octadecyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Tryptophan octadecyl ester
FS STEREOSEARCH
MF C29 H48 N2 O2
CI COM
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

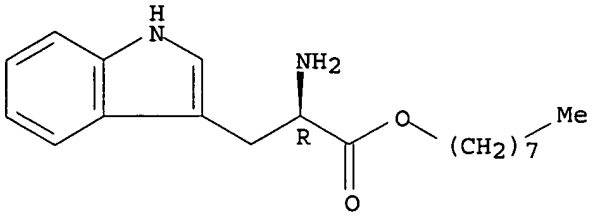


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1967 TO DATE)
4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 41 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **134166-74-8** REGISTRY
CN D-Tryptophan, octyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C19 H28 N2 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

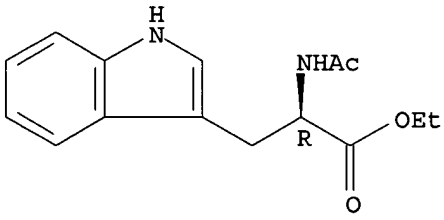


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1967 TO DATE)
9 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 42 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **92520-19-9** REGISTRY
CN D-Tryptophan, N-acetyl-, ethyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C15 H18 N2 O3
LC STN Files: BEILSTEIN*, CA, CAPLUS, GMELIN*, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.

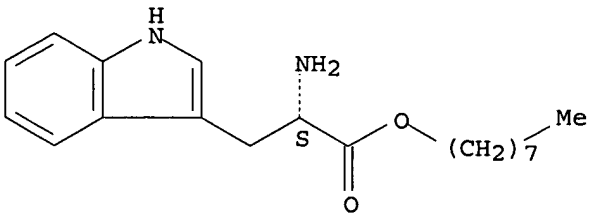


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1967 TO DATE)
10 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 43 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **76733-49-8** REGISTRY
CN L-Tryptophan, octyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Tryptophan octyl ester
FS STEREOSEARCH
MF C19 H28 N2 O2
LC STN Files: BIOSIS, CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

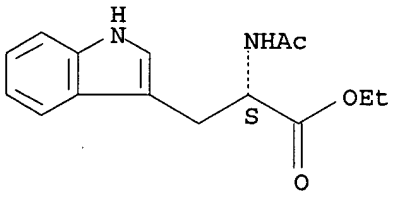


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

27 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
27 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 44 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **2382-80-1** REGISTRY
CN L-Tryptophan, N-acetyl-, ethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Tryptophan, N-acetyl-, ethyl ester, L- (6CI, 7CI, 8CI)
OTHER NAMES:
CN Ac-Trp-OEt
CN Acetyl-L-tryptophan ethyl ester
CN N-Acetyl-L-tryptophan ethyl ester
CN N-Acetyltryptophan ethyl ester
CN N-Acetyltryptophan O-ethyl ester
CN N.alpha.-Acetyl-L-tryptophan ethyl ester
FS STEREOSEARCH
DR 17002-30-1, 27442-41-7, 27442-71-3, 37784-18-2
MF C15 H18 N2 O3
LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, GMELIN*, HODOC*, TOXCENTER, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



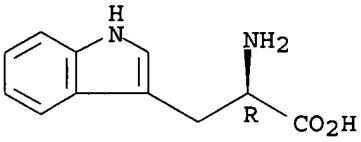
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

189 REFERENCES IN FILE CA (1967 TO DATE)
189 REFERENCES IN FILE CAPLUS (1967 TO DATE)
21 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L12 ANSWER 45 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **153-94-6** REGISTRY
CN D-Tryptophan (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Tryptophan, D- (8CI)
OTHER NAMES:
CN (+)-Tryptophan
CN (R)-.alpha.-Amino-3-indolepropionic acid
CN (R)-.alpha.-Aminoindole-3-propanoic acid
CN (R)-Tryptophan
CN D-Tryptophane
FS STEREOSEARCH
MF C11 H12 N2 O2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA,

CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, NIOSHTIC, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.

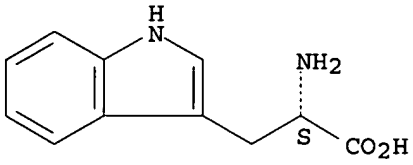


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1101 REFERENCES IN FILE CA (1967 TO DATE)
42 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1105 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 46 OF 46 REGISTRY COPYRIGHT 2002 ACS
RN **73-22-3** REGISTRY
CN L-Tryptophan (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Tryptophan, L- (8CI)
OTHER NAMES:
CN (-)-Tryptophan
CN (S)-.alpha.-Amino-.beta.-indolepropionic acid
CN (S)-.alpha.-Amino-1H-indole-3-propanoic acid
CN (S)-.alpha.-Aminoindole-3-propionic acid
CN (S)-Tryptophan
CN 1H-Indole-3-alanine, (S)-
CN 1H-Indole-3-propanoic acid, .alpha.-amino-, (S)-
CN 2-Amino-3-indolylpropanoic acid
CN 3-Indol-3-ylalanine
CN EH 121
CN h-Trp-oh
CN L-(-)-Tryptophan
CN l-.alpha.-Aminoindole-3-propionic acid
CN l-.beta.-3-Indolylalanine
CN L-Alanine, 3-(1H-indol-3-yl)-
CN L-Tryptophane
CN Lyphan
CN Tryptophan
CN Tryptophane
FS STEREOSEARCH
DR 6912-86-3, 80206-30-0
MF C11 H12 N2 O2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PHAR, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

26942 REFERENCES IN FILE CA (1967 TO DATE)
1059 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
26987 REFERENCES IN FILE CAPLUS (1967 TO DATE)
8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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DELETE ALL E# DEFINITIONS? (Y)/N:y

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E1 THROUGH E44 ASSIGNED

=> FIL MEDLIN CAPL BIOSIS USPATFULL WPID

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	77.34	470.71

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1/BI OR 261734-91-2/BI OR 261734-92-3/BI OR 261734-93-4/BI OR 76733-49-8/BI OR 92520-19-9/BI)

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L15 10 COMPOSITION AND L14

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PROCESSING COMPLETED FOR L15
L16 10 DUP REM L15 (0 DUPLICATES REMOVED)

=> d ibib abs 7-10

L16 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1986:69143 CAPLUS
DOCUMENT NUMBER: 104:69143
TITLE: Enzymic reactions in aqueous-organic media. 1. Synthesis of aromatic amino acid ethyl esters by .alpha.-chymotrypsin in solutions of high ethanol concentrations
AUTHOR(S): Kise, Hideo; Shirato, Hitoshi
CORPORATE SOURCE: Inst. Mater. Sci., Univ. Tsukuba, Sakura, 305, Japan
SOURCE: Tetrahedron Lett. (1985), 26(49), 6081-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 104:69143
AB N-Acetyl-L-tryptophan and N-acetyl-L-tyrosine were converted to their Et esters by .alpha.-chymotrypsin in water-ethanol mixed solvents with ethanol concn. higher than 90%. The effects of the solvent **compn**. and the stability of .alpha.-chymotrypsin in these solns. are described.

L16 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1984:566515 CAPLUS
DOCUMENT NUMBER: 101:166515
TITLE: Some applications of chiral liquid affinity chromatography using bovine serum albumin as a stationary phase
AUTHOR(S): Allenmark, Stig; Bomgren, Bjoern; Andersson, Shalini
CORPORATE SOURCE: Dep. Chem., Linkoeping Univ., Linkoeping, S-581 83, Swed.
SOURCE: Prep. Biochem. (1984), 14(2), 139-47
CODEN: PRBCBQ; ISSN: 0032-7484
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Enantiomeric **compn**. in aq. solvents was detd. by HPLC on Resolvosil (10 .mu.m) column which was packed with bovine serum albumins covalently bound to silica. This method was used for direct observation of the stereochem. of .alpha.-chymotrypsin-catalyzed hydrolysis of N-acetyl-D,L-tryptophan Et ester in one kinetic expt. and for studies of stereoselective microbial conversions, as exemplified by an enantioselective degrdn. of N-(4-nitrobenzoyl)-D,L-serine.

L16 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1979:470659 CAPLUS
DOCUMENT NUMBER: 91:70659
TITLE: Purification, characterization and localization of serine protease of Morris hepatoma 8999
AUTHOR(S): Banno, Yoshiko; Morris, Harold P.; Katunuma, Nobuhiko
CORPORATE SOURCE: Sch. Med., Tokushima Univ., Tokushima, Japan
SOURCE: Eur. J. Biochem. (1979), 97(1), 11-21
CODEN: EJBCAI; ISSN: 0014-2956
DOCUMENT TYPE: Journal

LANGUAGE: English

AB A serine protease of hepatoma 8999, isolated in the mitochondrial fraction, was purified and crystd. The purified enzyme was apparently homogeneous on ultracentrifugal anal. and polyacrylamide disc gel electrophoresis. The ratio of absorbance at 280 nm and 260 nm, A280/A260, was 1.90 and the absorption coeff., A2801%, was 10.5 cm-1 estd. from dry. wt. measurements. The sedimentation coeff. was 2.23 S and the mol. wt. was 24,000. The enzyme contained twice as much lysine, arginine, and histidine as chymotrypsinogen, but had a very similar amino acid **compn**. to serine protease from skeletal muscle. The isoelec. point was pH 10.6. The substrate specificity of the enzyme was the same as that of chymotrypsin A. The Km and kcat values for N-acetyl-L-tyrosine Et ester, N-acetyl-L-phenylalanine Et ester, and N-acetyl-L-tryptophan Et ester were 0.35 mM and 10.69 s-1, 0.38 mM and 10.7 s-1, and 0.11 mM and 11.8 s-1, resp. The activity was completely inhibited by phenylmethylsulfonyl fluoride and partially inhibited by tosylphenylalanine chloromethyl ketone. The enzyme was located in different granules from the intracellular particules (light and heavy mitochondrial fraction) by sucrose d. gradient centrifugation, and it was stained in mast cells of the hepatoma 8999 by the immunofluorescent technique. Serine proteases were present in different amts. in various organs of rat. The enzyme from hepatoma 8999 gave a single band that fused completely with those of the enzymes from skeletal muscle, heart, liver, and kidney, resp., on Ouchterlony double-diffusion anal. using antiserum to the cryst. enzyme of hepatoma 8999; the enzyme from small intestine did not react with the antiserum.

L16 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1978:502716 CAPLUS
DOCUMENT NUMBER: 89:102716
TITLE: Selective cleavage of peptide bonds by a serine protease from the muscle layer of rat small intestine
AUTHOR(S): Kobayashi, Keiko; Katunuma, Nobuhiko
CORPORATE SOURCE: Sch. Med., Tokushima Univ., Tokushima, Japan
SOURCE: J. Biochem. (Tokyo) (1978), 84(1), 65-74
CODEN: JOBIAO; ISSN: 0021-924X
DOCUMENT TYPE: Journal
LANGUAGE: English

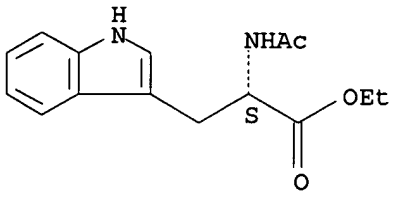
AB The kinetic consts. of a serine protease from the muscle layer of rat small intestine for hydrolysis of 3 ester substrates were compared with those reported for bovine chymotrypsin A. The Km values for acetyltyrosine Et ester and acetylphenylalanine Et ester were very similar to those of chymotrypsin A, but the catalytic activity/mol of serine protease was only 2% as high as that of chymotrypsin A. The selectivity of action of the serine protease was examd. using glucagon, oxidized insulin B chain, LH-releasing hormone, and neurotensin. The most susceptible bonds were Tyr-Leu, Trp-Leu, Phe-Phe, Tyr-Ile, and Tyr-Gly, whereas Phe-Tyr and Pro-Arg-Arg-Pro were less susceptible. However, unlike the chymotrypsin group, when the amino acid on the carboxyl side of tyrosine, tryptophan, or phenylalanine was serine, threonine, or glutamic acid, these peptide bonds were not susceptible to the protease. The specificity of the serine protease from the muscle layer of small intestine is that of the chymotrypsin group, but differs from that of chymotrypsin A or C.

=> d hitstr 7-10

L16 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2002 ACS
IT **2382-80-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, by chymotrypsin-catalyzed esterification with ethanol)

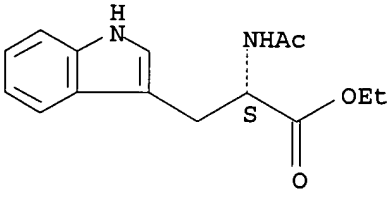
RN 2382-80-1 CAPLUS
CN L-Tryptophan, N-acetyl-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



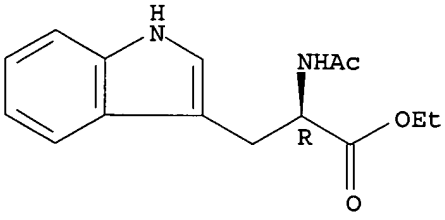
L16 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2002 ACS
IT **2382-80-1 92520-19-9**
RL: ANT (Analyte); ANST (Analytical study)
(chromatog. of, chiral high-performance liq.)
RN 2382-80-1 CAPLUS
CN L-Tryptophan, N-acetyl-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



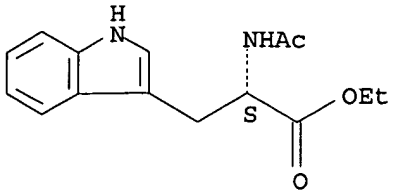
RN 92520-19-9 CAPLUS
CN D-Tryptophan, N-acetyl-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



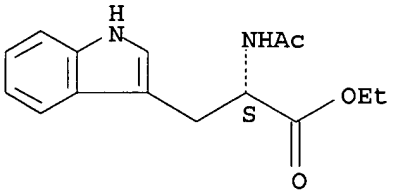
L16 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2002 ACS
IT **2382-80-1**
RL: RCT (Reactant)
(reaction of, with serine proteinase of hepatoma, kinetics of)
RN 2382-80-1 CAPLUS
CN L-Tryptophan, N-acetyl-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L16 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2002 ACS
IT **2382-80-1**
RL: RCT (Reactant)
(reaction of, with intestinal serine proteinase, kinetics of)
RN 2382-80-1 CAPLUS
CN L-Tryptophan, N-acetyl-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> s Alzheimer or cancer or neoplast? or degenerat?
L17 1673551 ALZHEIMER OR CANCER OR NEOPLAST? OR DEGENERAT?

=> s l14 and l17
L18 2 L14 AND L17

=> d ti tot

L18 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
TI Tryptophanyl esters and their N-acyl derivatives for the prevention and treatment of diseases caused or exacerbated by oxidative processes

L18 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS
TI Preparation of lavendamycin analogs and quinoline-5,8-diones for pharmaceutical use

=> d tot

L18 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
AN 2000:190909 CAPLUS
DN 132:231975
TI Tryptophanyl esters and their N-acyl derivatives for the prevention and treatment of diseases caused or exacerbated by oxidative processes
IN Behl, Christian; Moosmann, Bernd
PA Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V., Germany
SO PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

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PI   WO 2000015206       A2   20000323       WO 1999-EP6819   19990915
     WO 2000015206       A3   20000810
         W:  JP, US
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE
     DE 19842416         A1   20000413       DE 1998-19842416 19980916
     EP 1113795          A2   20010711       EP 1999-947352   19990915
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI
     US 2001014695       A1   20010816       US 2001-810152   20010316
PRAI DE 1998-19842416    A    19980916
     WO 1999-EP6819      W    19990915

L18  ANSWER 2 OF 2  CAPLUS  COPYRIGHT 2002 ACS
AN   2000:140600  CAPLUS
DN   132:180425
TI   Preparation of lavendamycin analogs and quinoline-5,8-diones for
     pharmaceutical use
IN   Behforouz, Mohammad; Behforouz, Nancy C.
PA   Ball State University, USA
SO   U.S., 39 pp., Cont.-in-part of U.S. 5,712,289.
     CODEN: USXXAM
DT   Patent
LA   English
FAN.CNT 4
     PATENT NO.         KIND  DATE           APPLICATION NO.  DATE
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PI   US 6030983          A    20000229       US 1997-962427   19971031
     US 5525611          A    19960611       US 1993-71648    19930604
     US 5646150          A    19970708       US 1994-345509   19941128
     US 5712289          A    19980127       US 1995-476213   19950607
PRAI US 1993-71648            19930604
     US 1994-345509           19941128
     US 1995-476213           19950607
OS   MARPAT 132:180425
RE.CNT  3     THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


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                                                      ENTRY    SESSION
FULL ESTIMATED COST                                  110.03     580.74

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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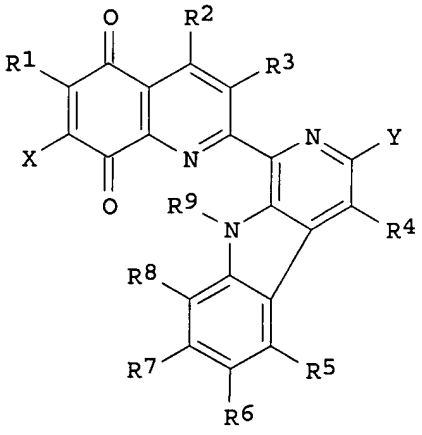
L18 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:140600 CAPLUS
DOCUMENT NUMBER: 132:180425
TITLE: Preparation of lavendamycin analogs and quinoline-5,8-diones for pharmaceutical use
INVENTOR(S): Behforouz, Mohammad; Behforouz, Nancy C.
PATENT ASSIGNEE(S): Ball State University, USA
SOURCE: U.S., 39 pp., Cont.-in-part of U.S. 5,712,289.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6030983	A	20000229	US 1997-962427	19971031
US 5525611	A	19960611	US 1993-71648	19930604
US 5646150	A	19970708	US 1994-345509	19941128
US 5712289	A	19980127	US 1995-476213	19950607

PRIORITY APPLN. INFO.: US 1993-71648 19930604
US 1994-345509 19941128
US 1995-476213 19950607
OTHER SOURCE(S): MARPAT 132:180425
GI



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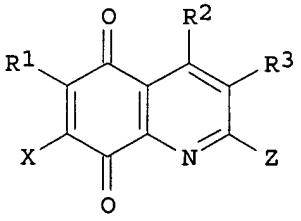


II

AB Lavendamycin analogs I [R1 = H, halogen; R2, R3, R4, R5, R6, R7, R8 = H, NO2, CN, halogen, alkyl, alkyloxy, alkylthio, amino, carbamoyl, thiocarbamoyl, acyl, thioacyl, etc.; R9 = H, acyl, thioacyl; X = NH2, acylamino, thioacylamino; Y = H, carboxy, carbamido, etc.] and quinoline-5,8-diones II [R1 = H, halogen; R2, R3 = H, NO2, CN, halogen, alkyloxy, alkylthio, amino, carbamoyl, thiocarbamoyl, acyl, thioacyl, etc.; X = NH2, acylamino, thioacylamino; Z = Me, CHO] were prepd. for use as anticancer and anti-HIV agents. Thus, 7-N-acetyllavendamycin Me ester I (R1 = H, R2, R3, R5, R6, R7, R8 = H, R4 = Me, X = MeCONH, Y = CO2Me) was prepd. via a multistep synthetic sequence starting from .beta.-methyltryptophan and 8-hydroxy-2-methylquinoline. The prepd. compds. were tested for cytotoxicity activity against a variety of **cancer** cell lines, as well as for anti-HIV reverse transcriptase activity.

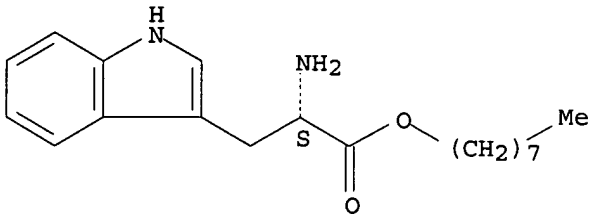
IT **76733-49-8**
RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of lavendamycin analogs and quinoline-5,8-diones for pharmaceutical uses, such as antitumor and anti-HIV agents)

RN 76733-49-8 CAPLUS

CN L-Tryptophan, octyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.50	587.33

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-12.39

STN INTERNATIONAL LOGOFF AT 11:15:31 ON 01 MAY 2002